A NEWSPAPER FOR THE ARCHITECT & CONSTRUCTOR

THE BUILDER

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITEC

No. 5916 114th Year FRIDAY, AUGUST 17, 1956 ONE SHILLING AND THREEPENCE

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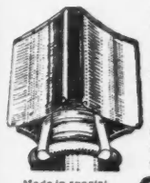
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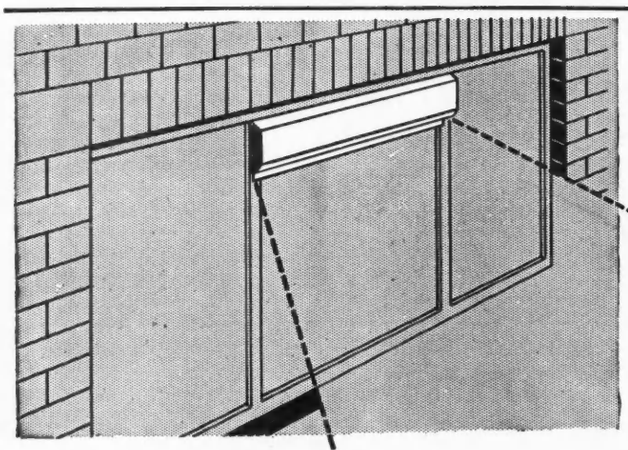

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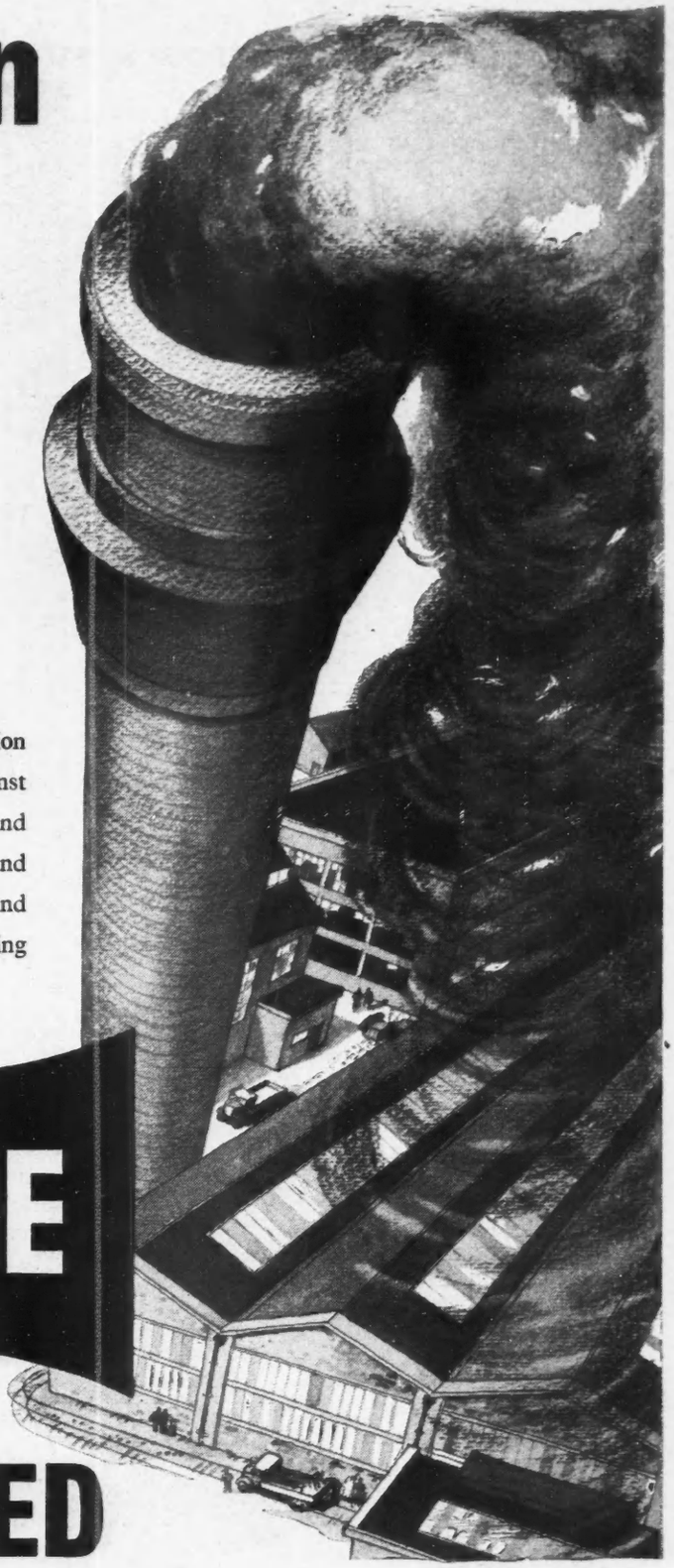

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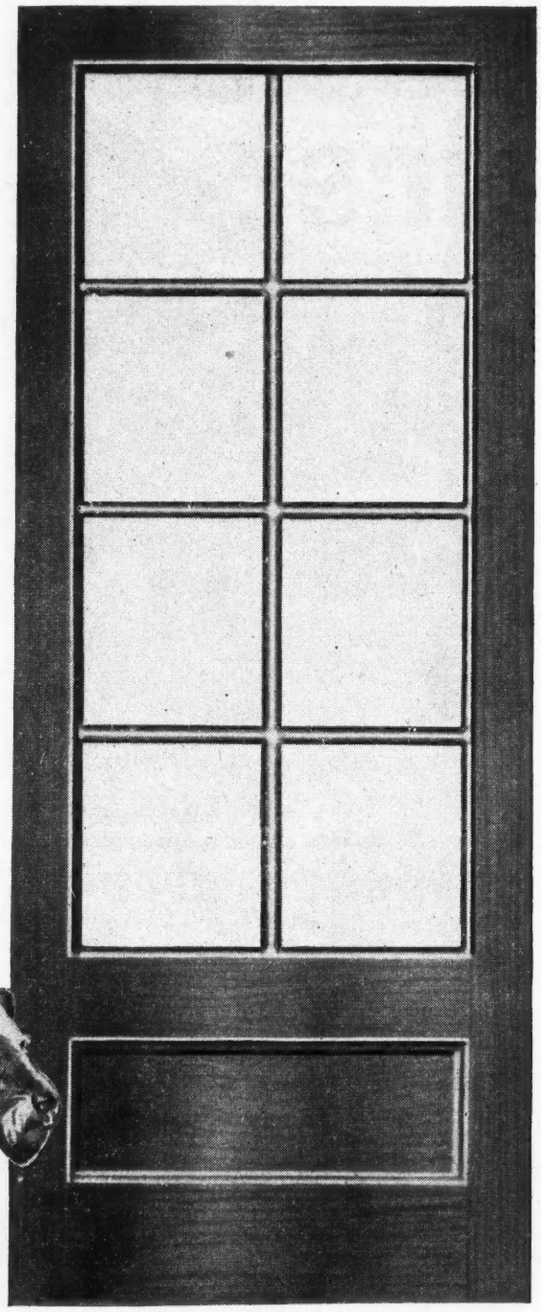

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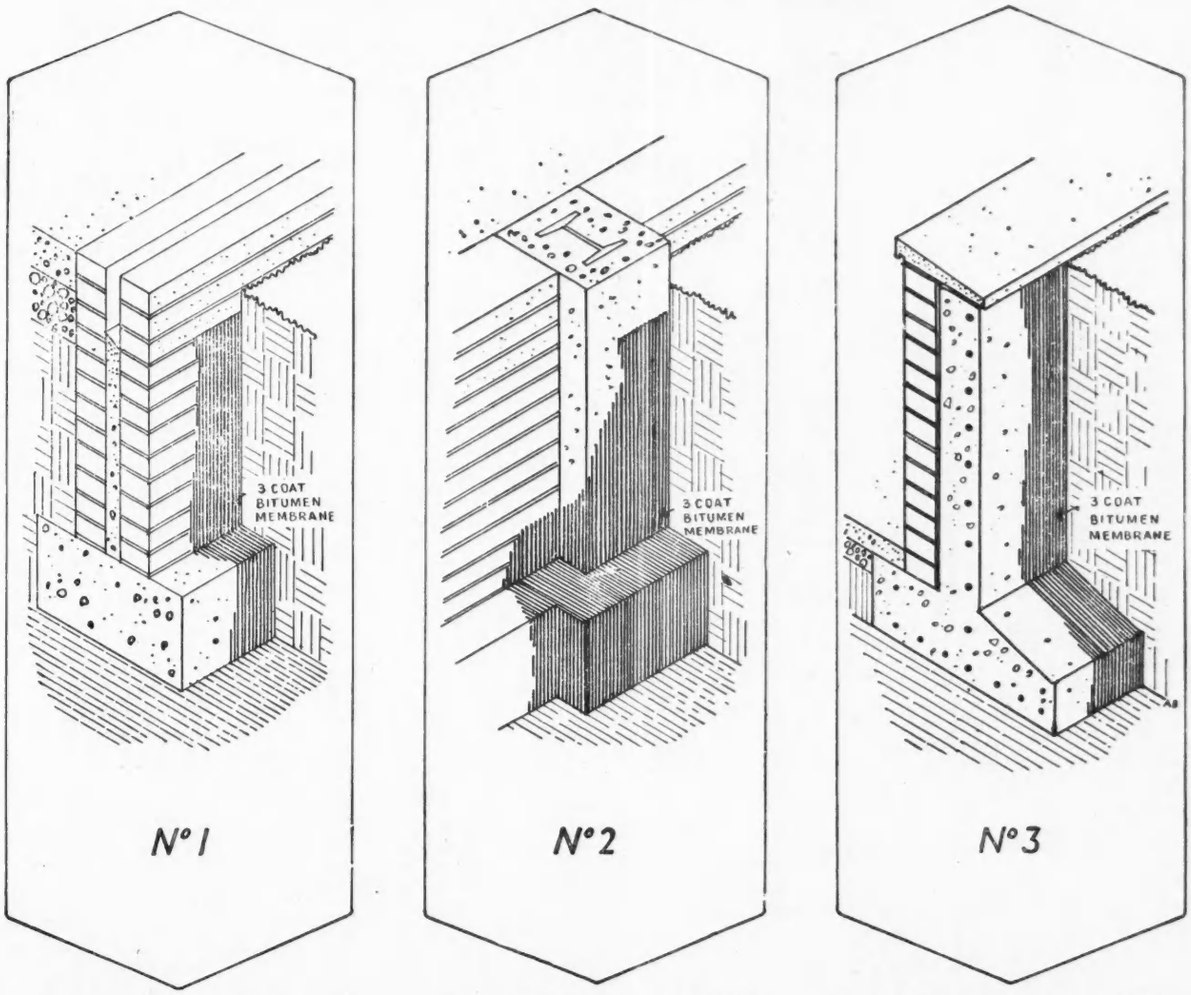

Protection to foundations of brick built structures in sulphate bearing soils.

Protection of concrete encased steelwork against chemical corrosion in polluted soils.

Prevention of corrosion in reinforced concrete against subsoil water.

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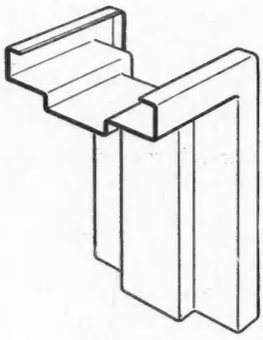

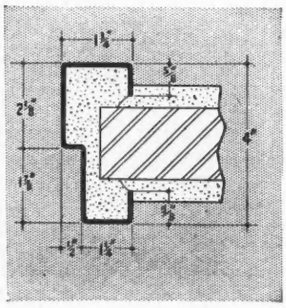

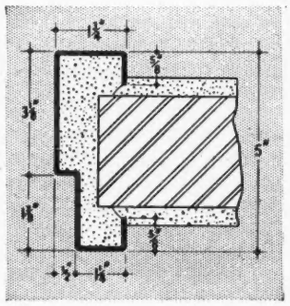

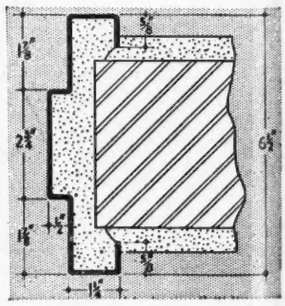

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ON any building site nothing of equal size can match the performance of the Aveling-Barford 3 cubic yard Dumper. The two-way steering saves turning time at the fill and the tip, and the power-assisted gravity tipping saves valuable seconds on every trip. With its powerful diesel engine and four forward and two reverse speeds it can haul loads of up to 3¾ tons over rough ground and up any gradient where wheels can grip.

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Photo by courtesy of W. Foster & Sons.

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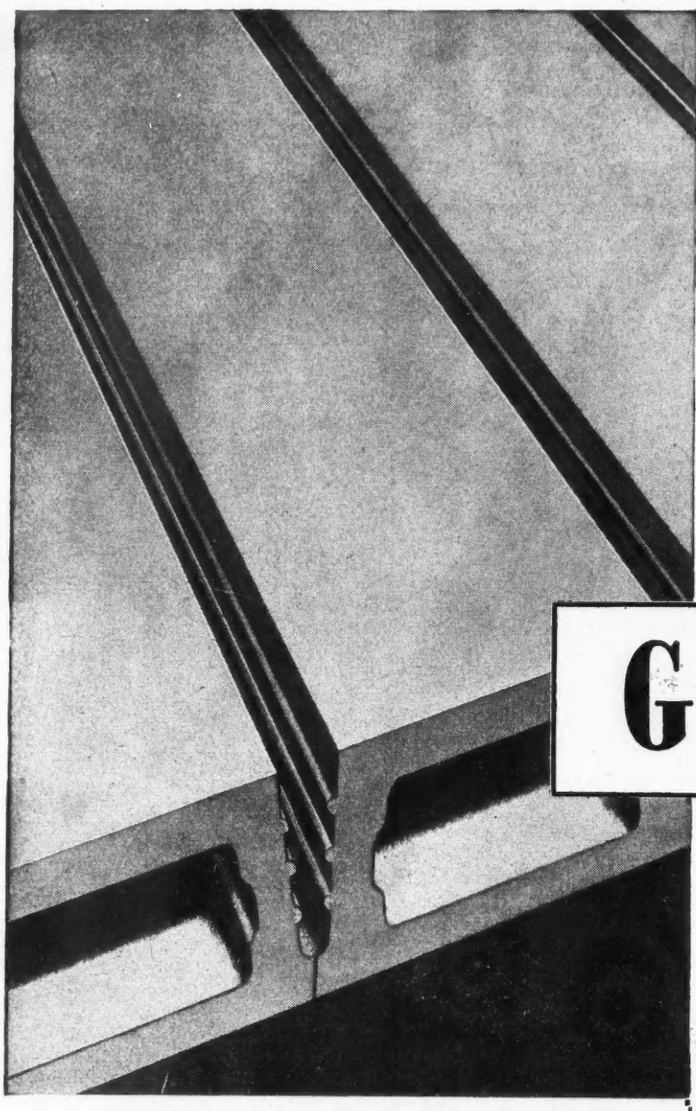

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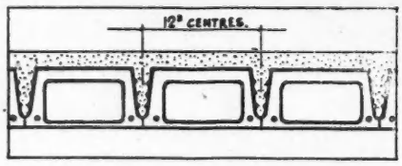
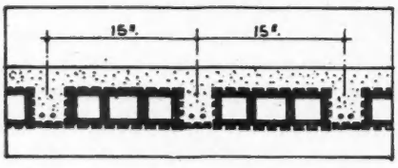
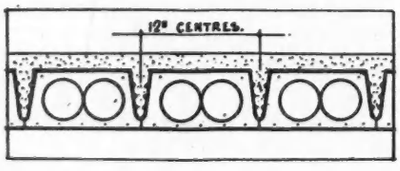


Normal Reinforced Concrete Beam supplied in any lengths up to 17' 6"



Hollow Tile Reinforced Concrete Floors



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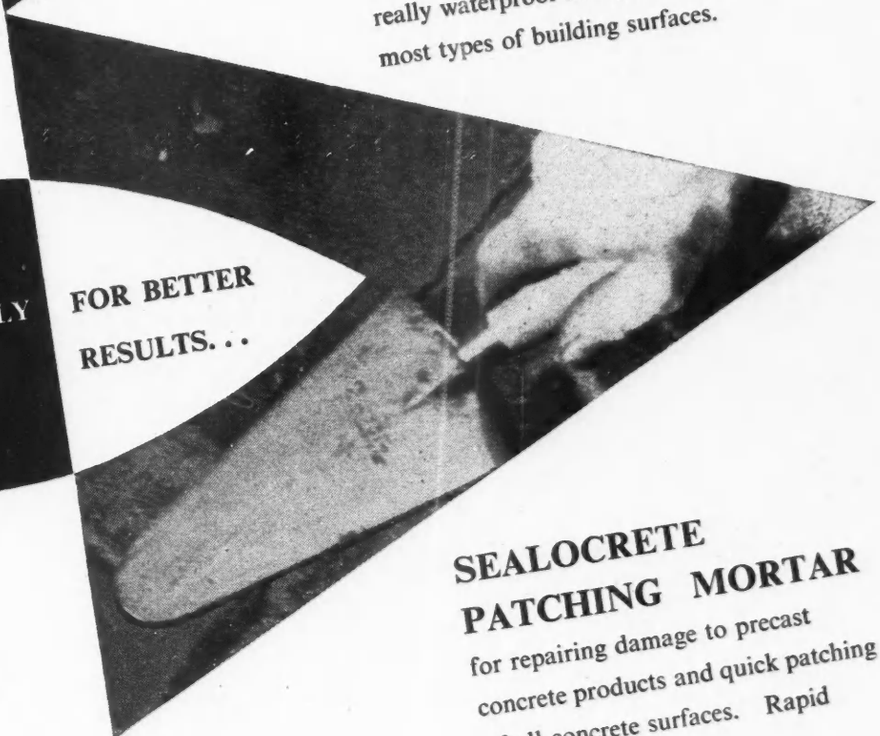
A fine textured cement paint which is really waterproof for application to most types of building surfaces.



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SEALOCRETE PATCHING MORTAR
for repairing damage to precast concrete products and quick patching of all concrete surfaces. Rapid setting and expansive.

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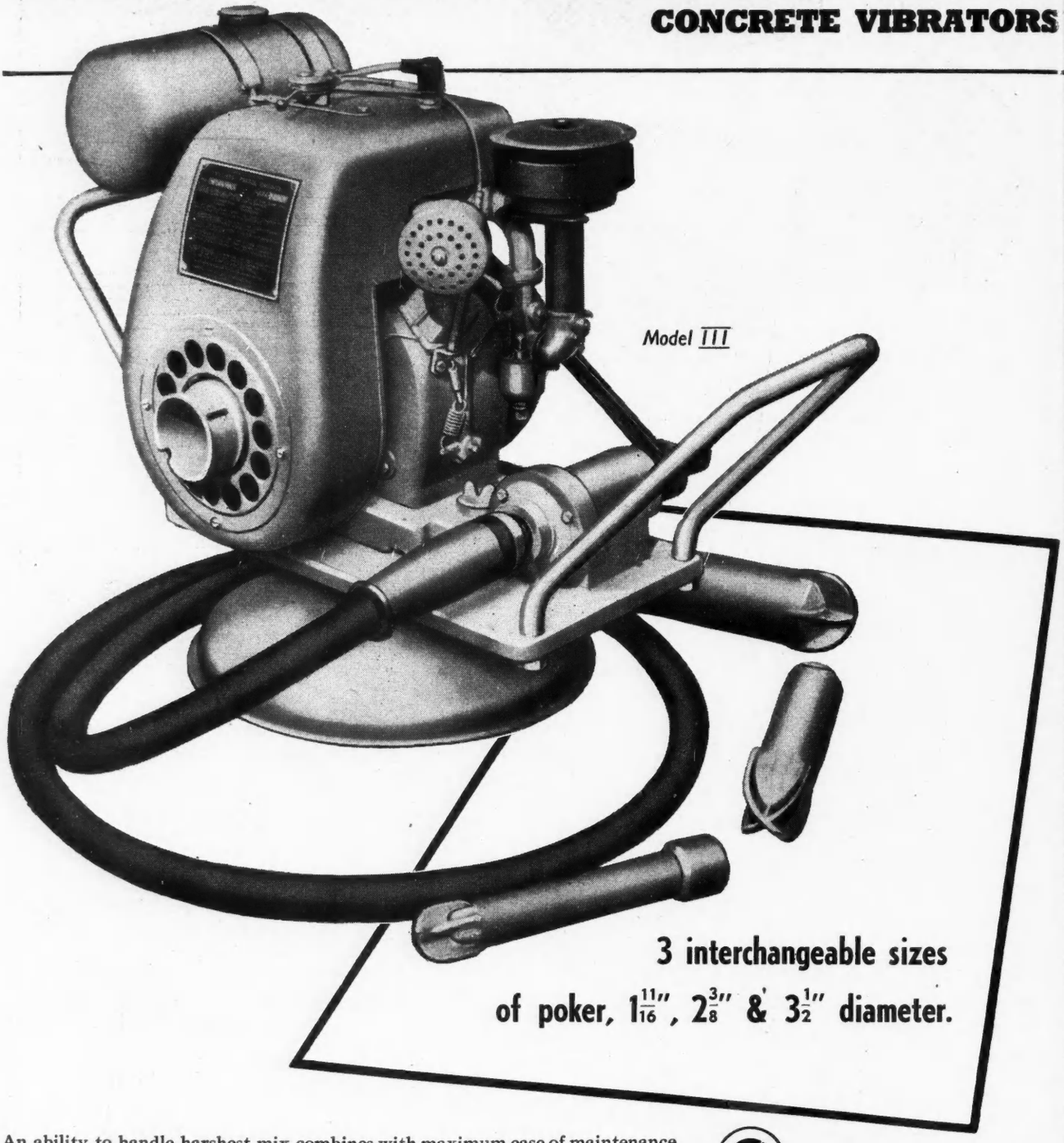
Fast, efficient (150 G) compaction of harshest mixes with JOHNSON

CONCRETE VIBRATORS



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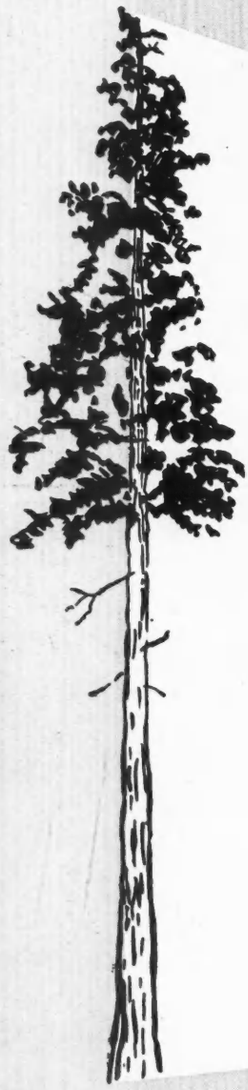

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WOOD . . .
nature's best building material

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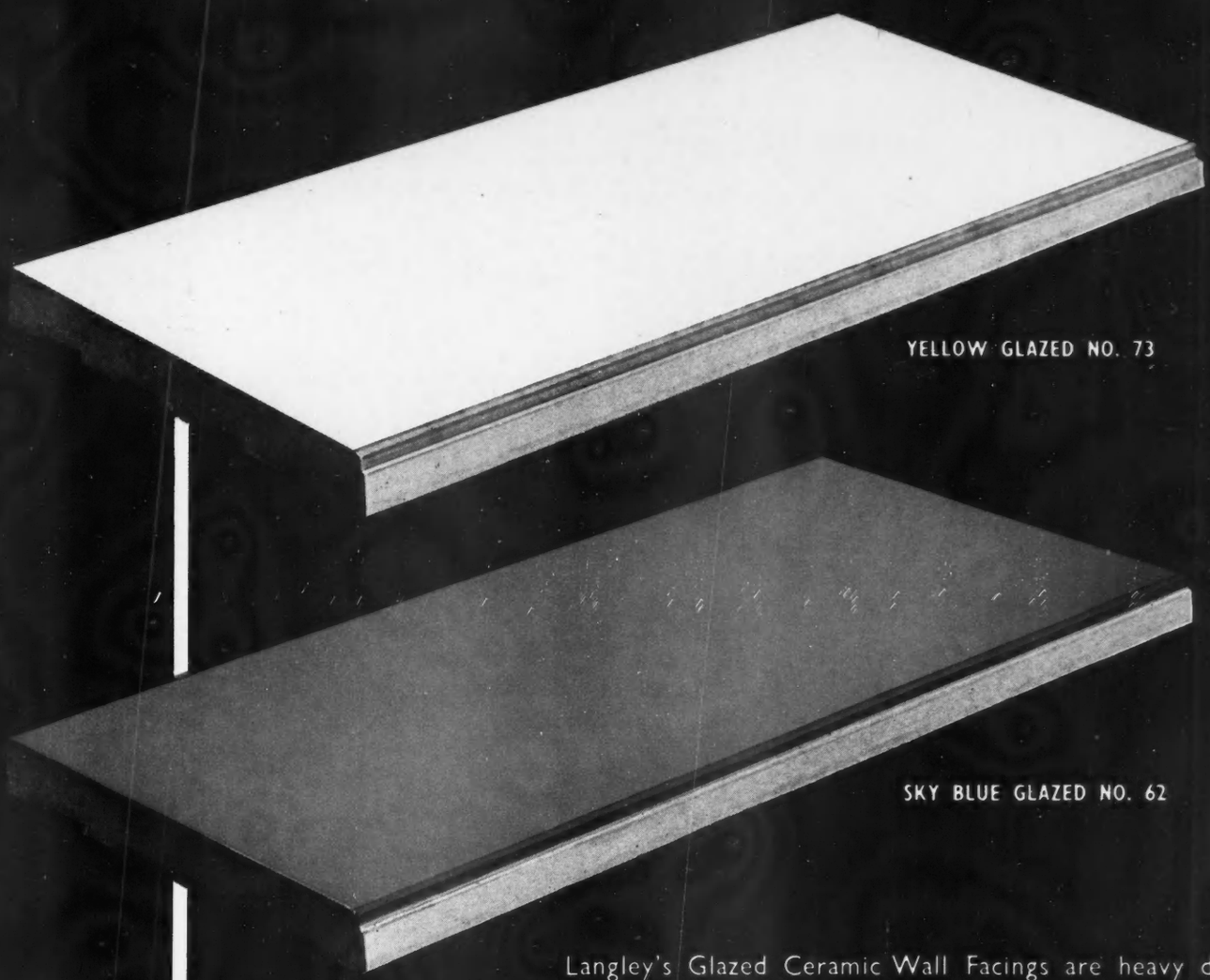
This advertisement is one of a series featuring Canadian Spruce, White Pine, Western Red Cedar, Red Pine and Pacific Coast Hemlock.
T.I.M - 2

Glazed Ceramic Wall Facings



Langley's Glazed Ceramic Wall Facings are heavy duty industrial glazed wall tiles in an attractive range of colours and, because they are frostproof, they are also suitable for external decorations, swimming baths, etc. They have a vitrified body which makes the whole tile acid-resistant as well as exceptionally shockproof. Immediate delivery can be given from stock ; Please send the coupon below for coloured illustrated leaflet and prices.

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GLAZED WALL FACINGS

WFB-856

LANGLEY LONDON LIMITED "The Tile Centre"
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DATE.....

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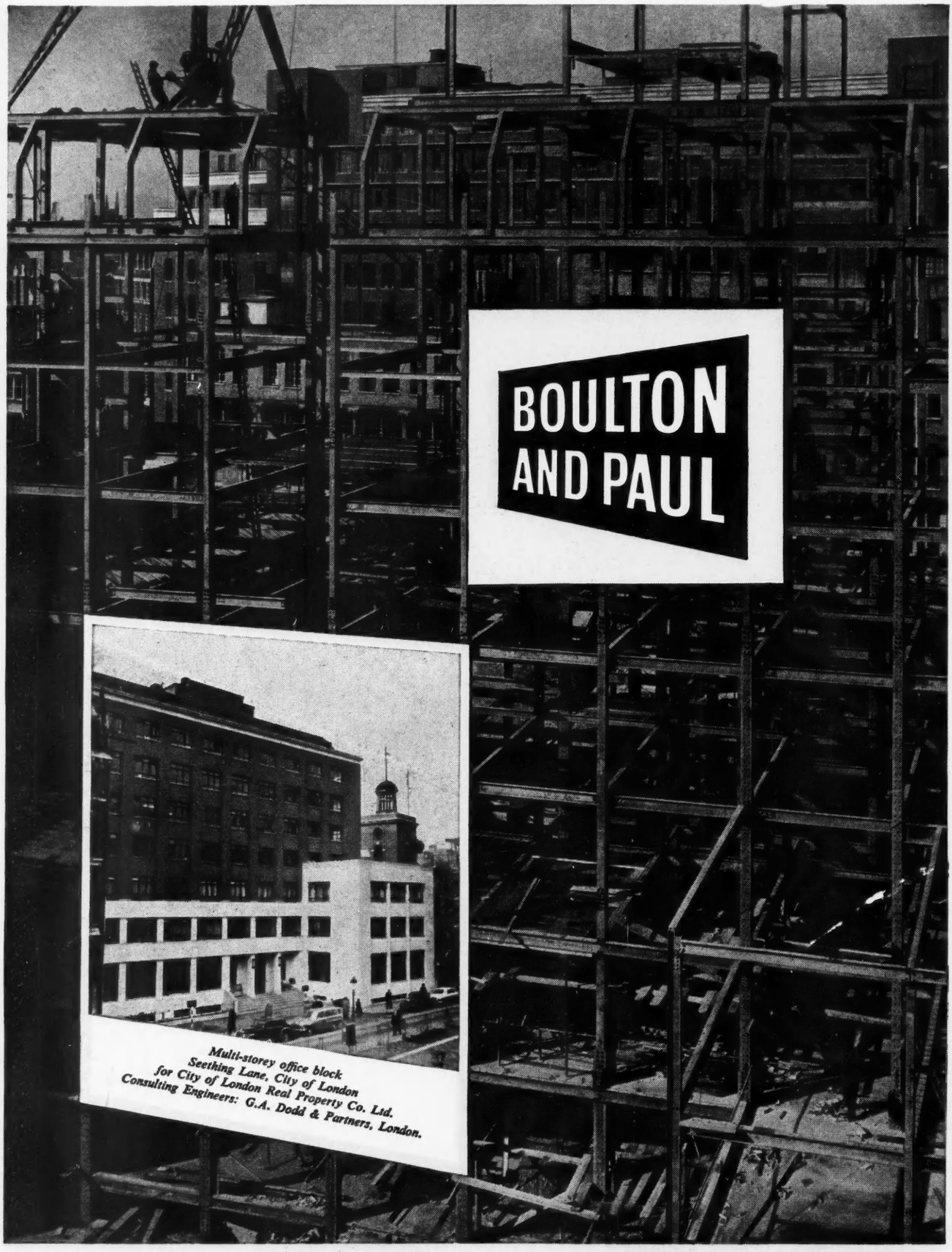

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For Perfect insulation in one thickness use BLACK SHEATHING FELT

The Time-tested underlay for Mastic Asphalte Roofs & Floors

One thickness of Black Sheathing Felt will provide perfect insulation, giving maximum time for hot asphalte to be worked easily and *thoroughly. One thickness* will give complete isolation from the screed. Architects know that the three essentials for a perfect asphalte roof or floor are—good asphalte, good craftsmen, and Black Sheathing Felt Underlay. That is why they have been specifying B.S.F. since Edwardian times.

- PLEASANT TO HANDLE
- DOES NOT FRACTURE
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Make sure the Underlay is
BLACK SHEATHING FELT
UNDER THE ASPHALTE

BLACK SHEATHING FELT

All rolls bear this sign. It is the architects' and asphalters' assurance of top quality underfelt. Accept no substitute for Black Sheathing Felt.

BLACK SHEATHING FELT

Specify and use it as the underlay to Mastic Asphalte Roofs & Floors

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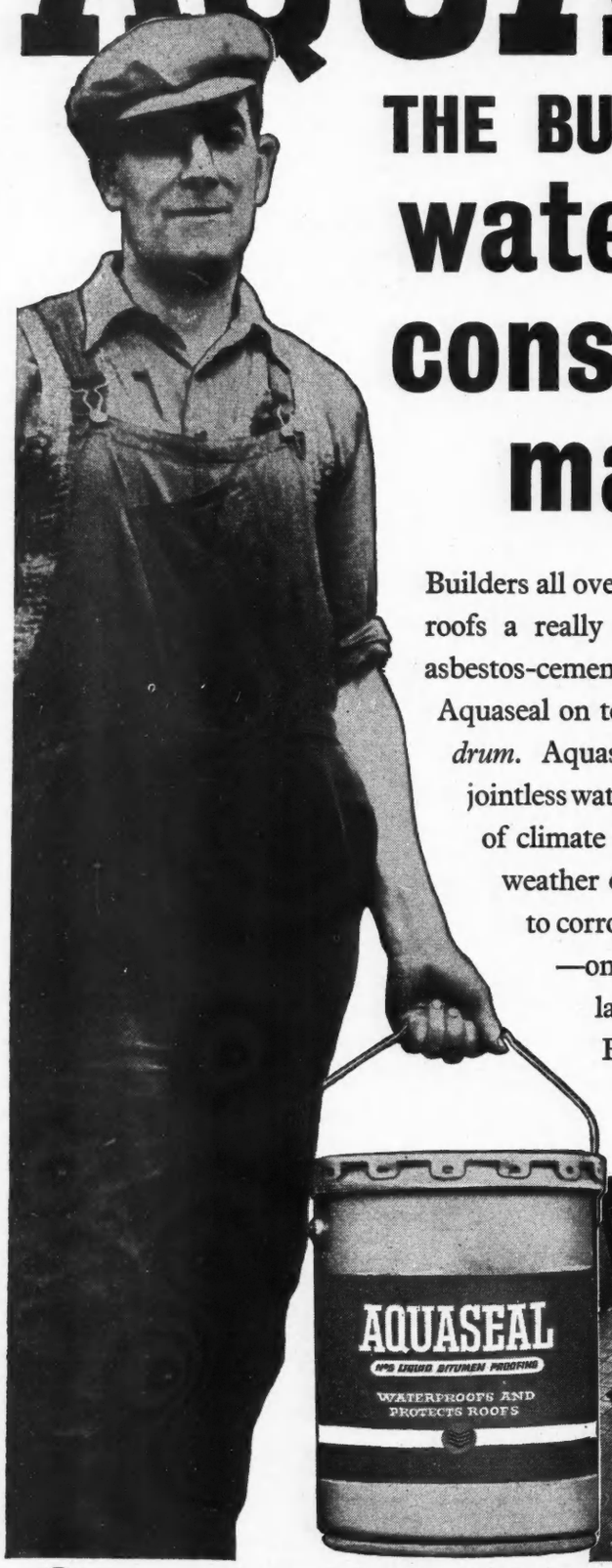
AQUASEAL

THE BUILDERS' CHOICE FOR waterproofing in construction and maintenance



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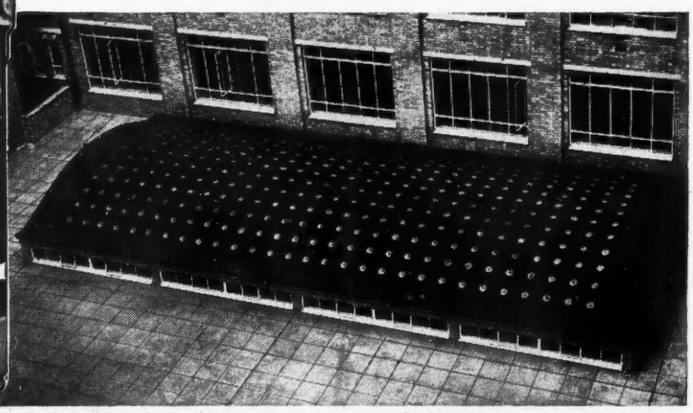
10 gallon drums	8/- per gallon	10 gallon drums	10/6 per gallon
5 gallon drums	8/6 per gallon	5 gallon drums	11/- per gallon
1 gallon cans	10/- per gallon	1 gallon cans	12/6 per gallon



BERRY WIGGINS & CO. LTD., FIELD HOUSE, BREAMS BUILDINGS, LONDON E.C.4. TELEPHONE: CHANCERY 4499

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Many permissible minimum weights greatly reduced

The new revisions of B.S.1085

(SILVER-COPPER-LEAD ALLOY)

permit the use of lighter weight Lead pipe underground

Tables incorporating the new British Standards for Lead pipe to B.S.602 and B.S.1085 have been prepared and are available in a revised edition of "CONCISE INFORMATION ON LEAD PIPE" free on request.

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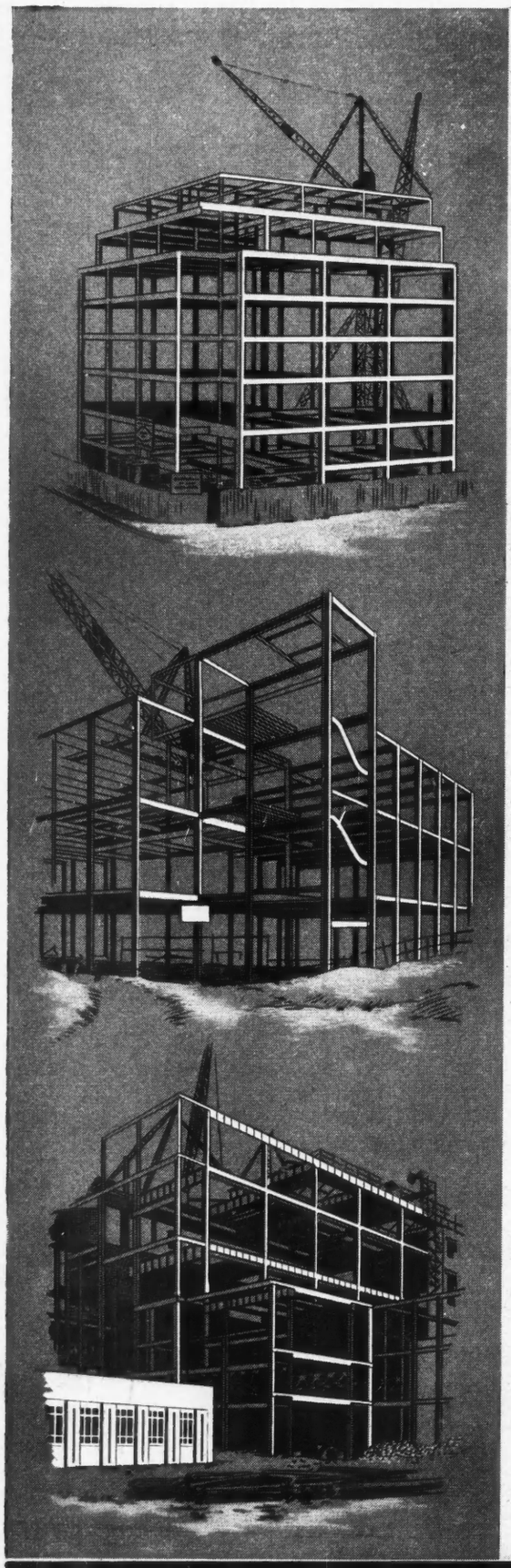

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SLIDING DOOR GEAR

The illustration on right shows yet another example of the use of ELLARD "Estate" Sliding Door Gear in the modern dwelling house. See how simple it is to convert a spacious room to one of a cosy intimate atmosphere. The fingertip smoothness of door action offers immediate reduction of living space when desired with the additional advantage of fuel economy. Elegant appearance, ease of operation and long service are the main selling features of this attractive ELLARD Door Gear. Excellent design, moderate cost and maximum use of floor space make ELLARD Door Gear the obvious choice for both council estates and private houses.

RADIAL

SLIDING DOOR GEAR

Illustration on left shows ELLARD "RADIAL" Sliding Door Gear fitted to a private garage. Sliding doors are of great advantage in protecting cars against damage caused by accidental swinging of hinged doors. In addition, valuable working space is offered where it is most desired, at the entrance to the garage. Note also how ELLARD Door Gear provides easy access to and from the garage by a personal entry door. ELLARD "Radial" Sliding Door Gear is low in price and gives long service without maintenance. This gear is also suitable for the larger openings of commercial and industrial garages.

OVERDOR

GARAGE DOOR GEAR

ELLARD "Overdor" gear, illustrated on right, represents the best method of operating an overhead type door, and it requires the minimum space, fixing time and maintenance. An entirely clear threshold is achieved, and both side walls are available for windows or shelves. "Overdor" gear is designed for doors from 6 ft. to 7 ft. 3 ins. high and up to 200 lbs. in weight. The door is safely balanced and can be opened and closed with ease. The width of the door is not critical but the construction should ensure that the door does not sag when in the raised horizontal position, and we suggest a maximum width of 10 ft. The balance springs impose a compression force along the jambs, thus relieving the building of all stress until the door is raised, when less than half the weight of the door is supported by the twin top tracks. ELLARD "Overdor" gear is therefore especially suitable for lightly constructed buildings.

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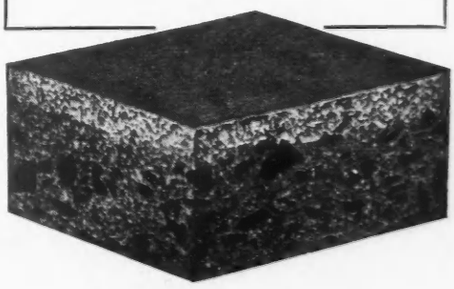

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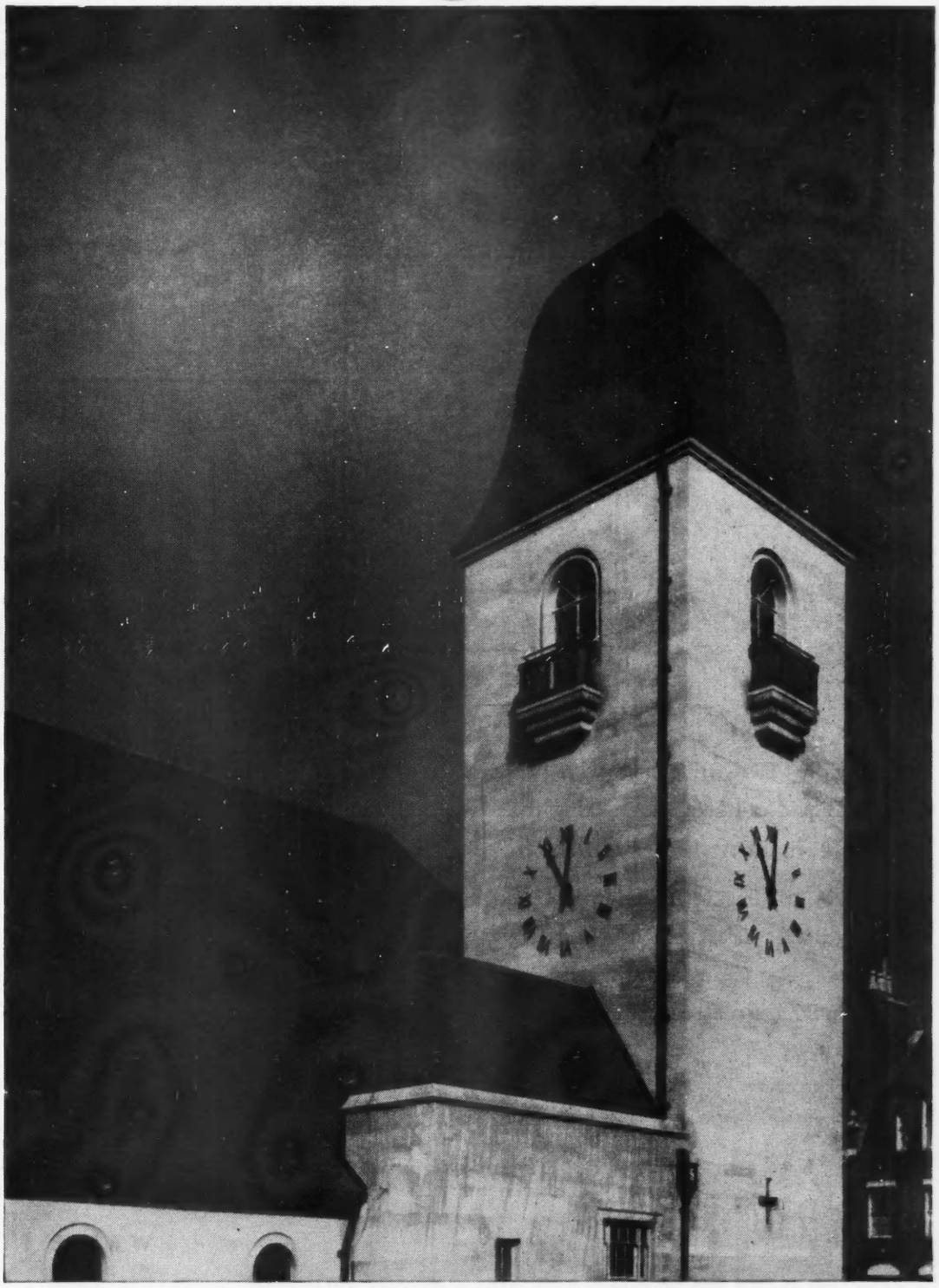

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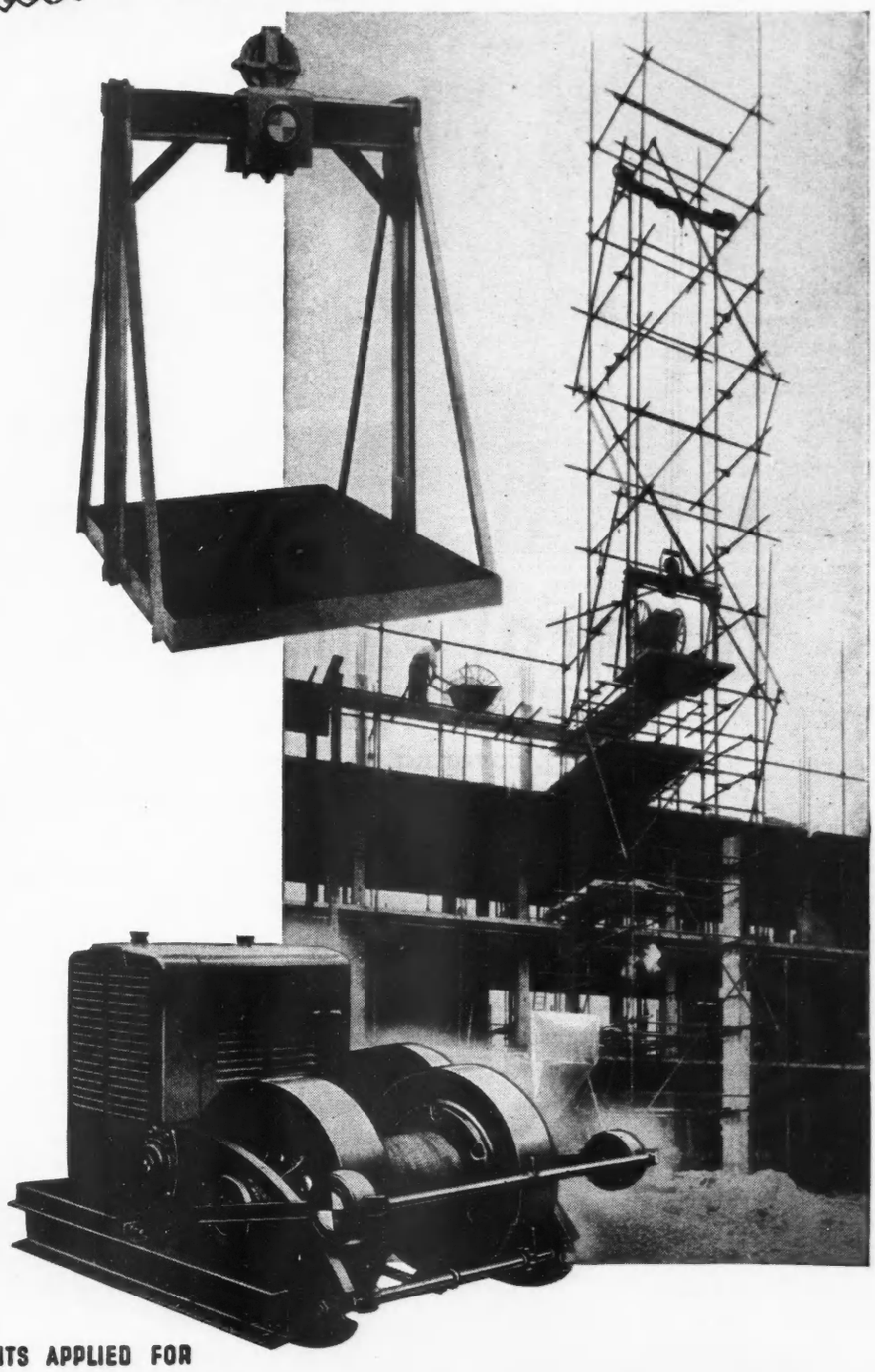

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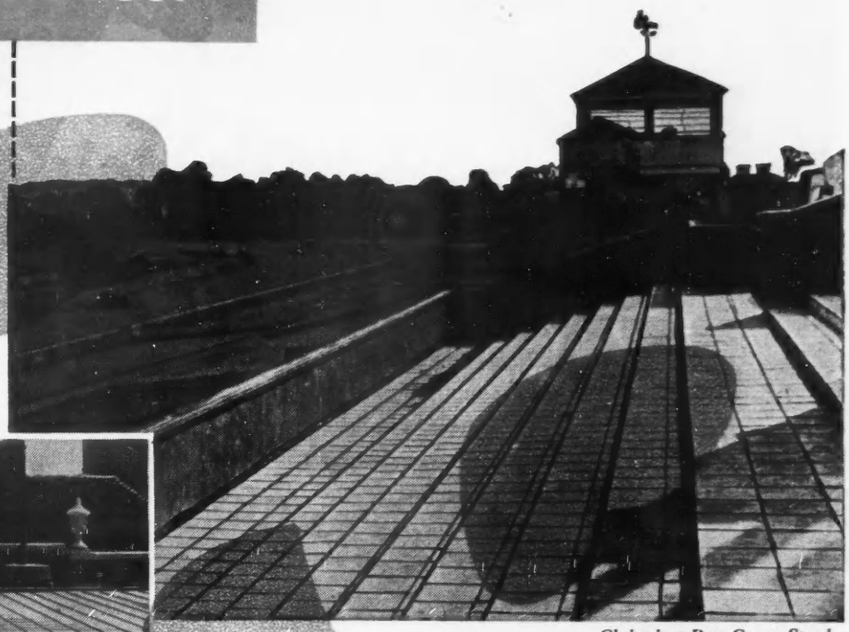

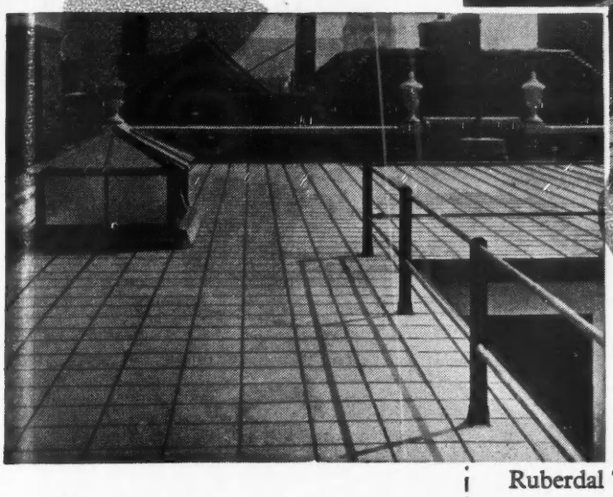

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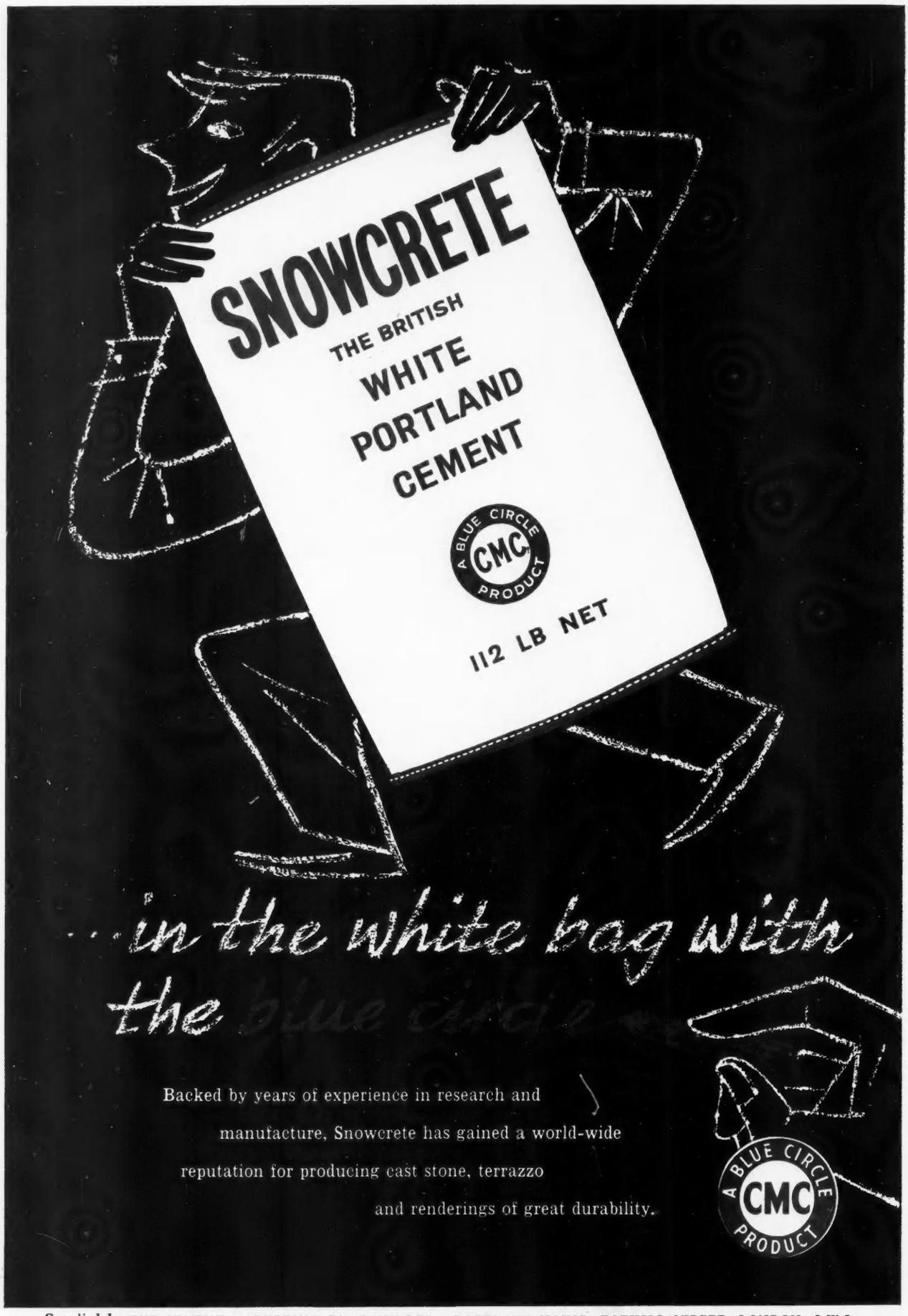

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3 It reduces site labour costs

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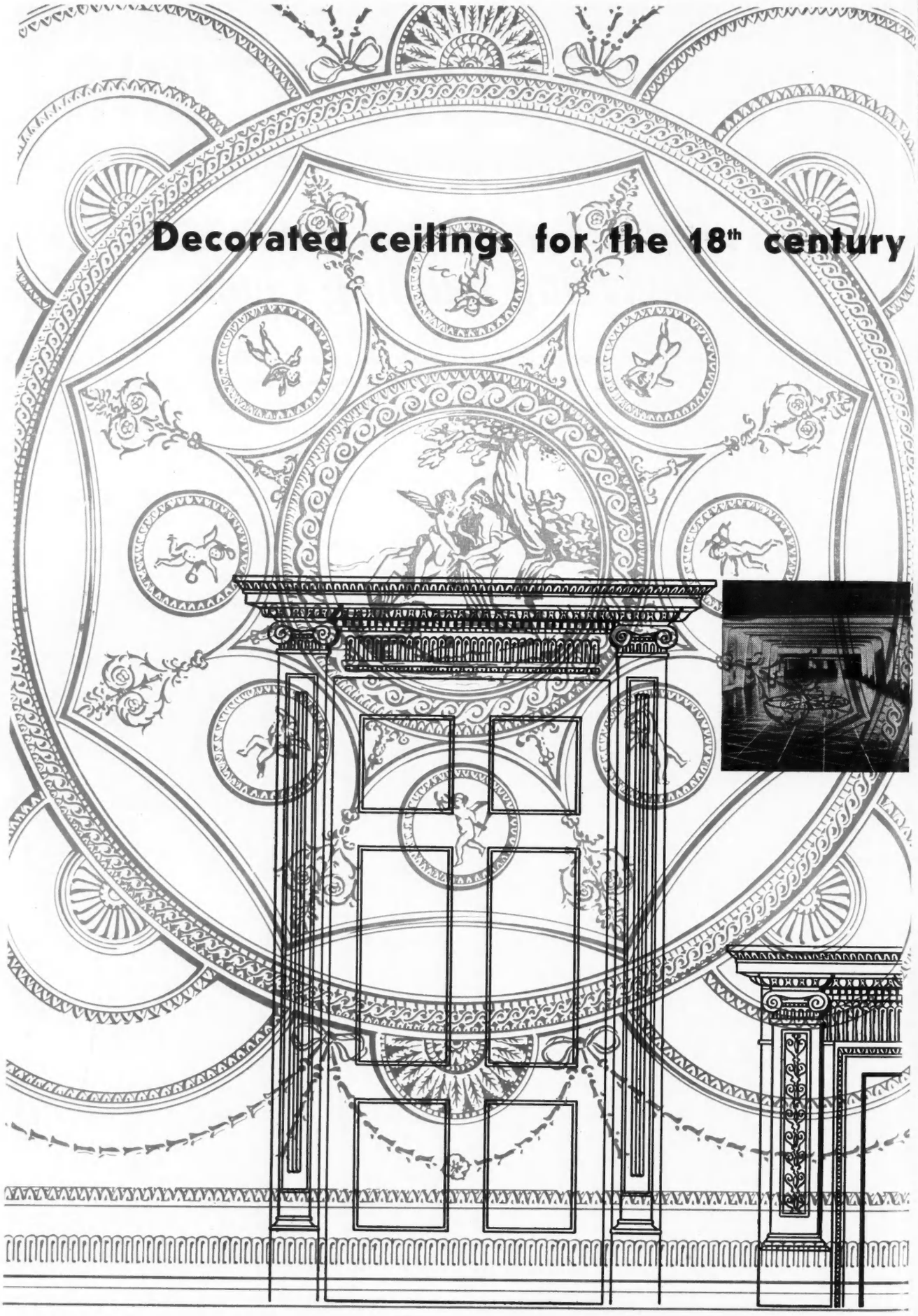

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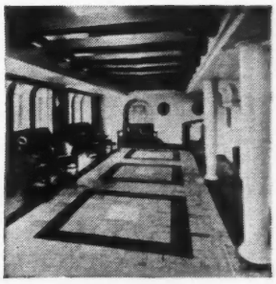

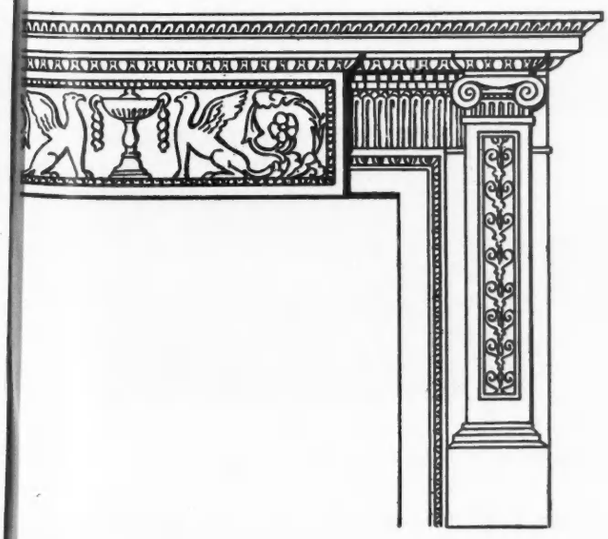

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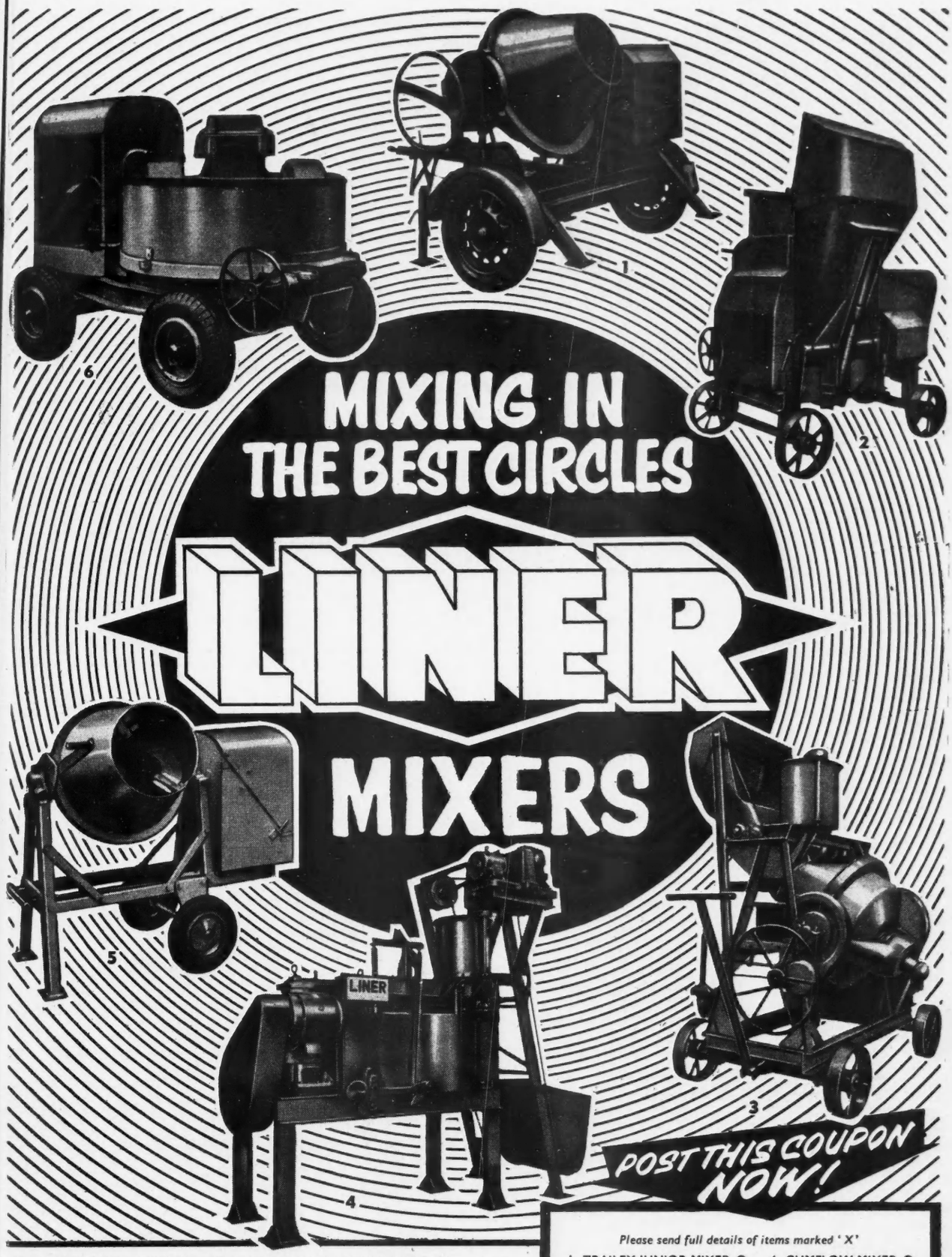

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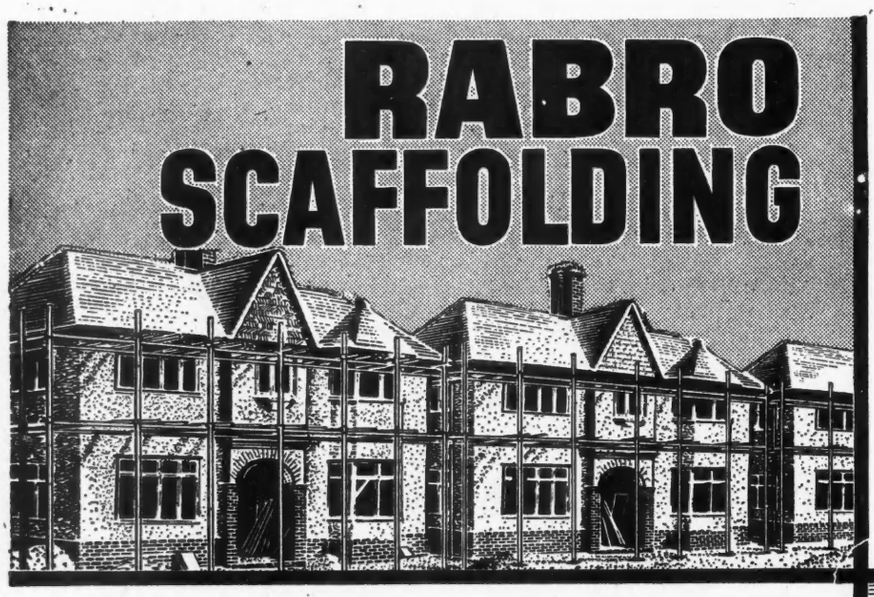

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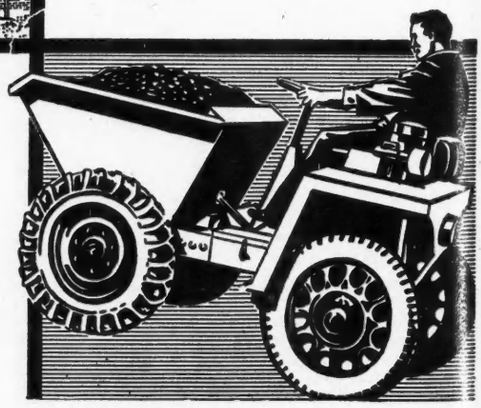

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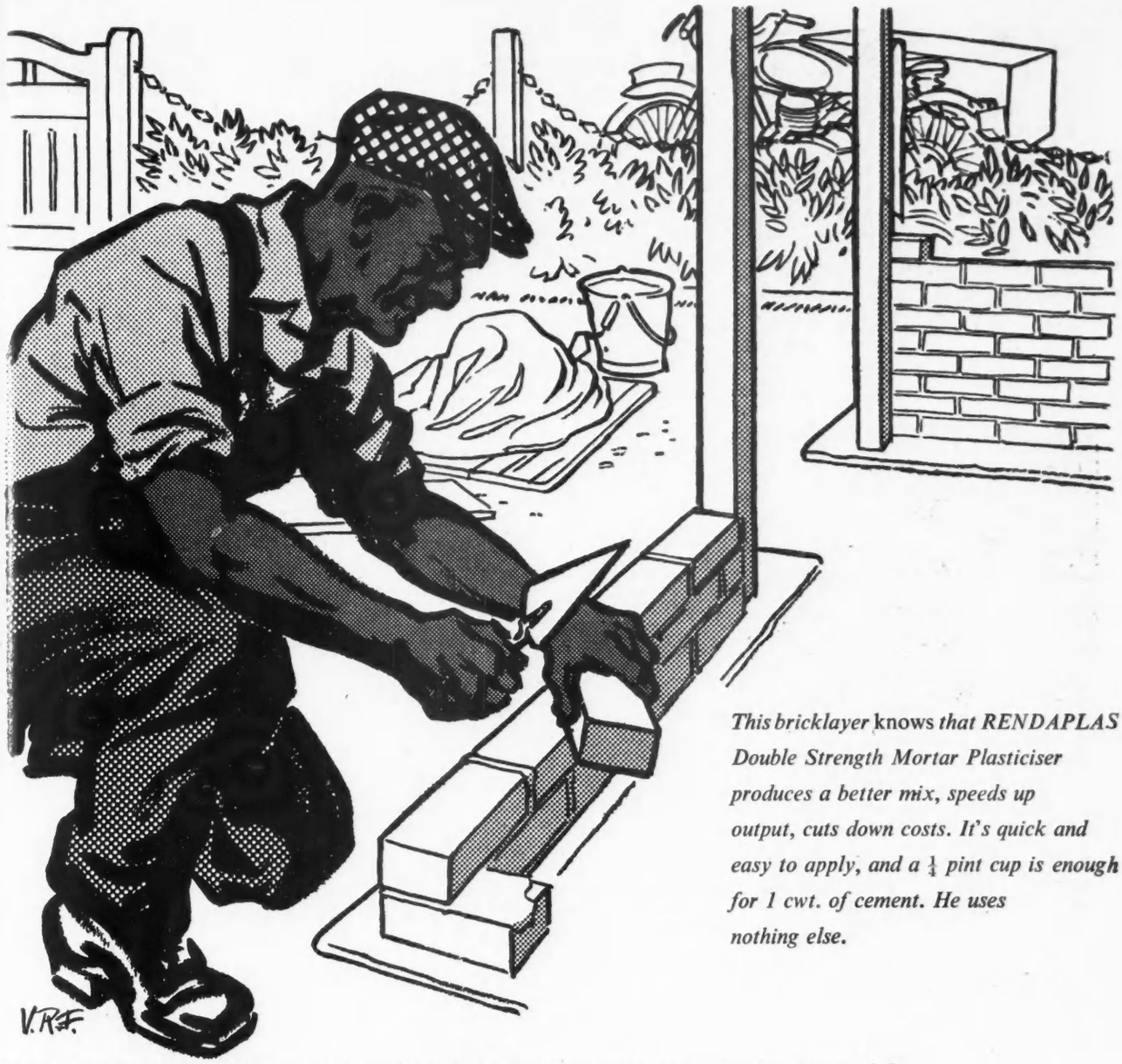

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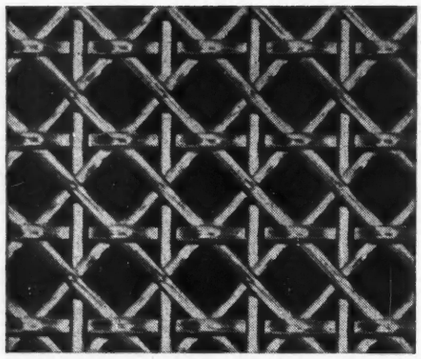

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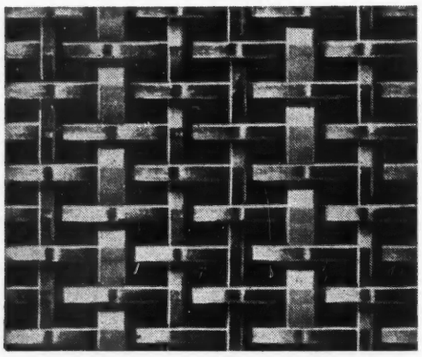

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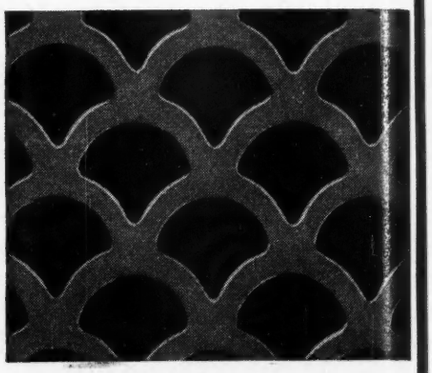

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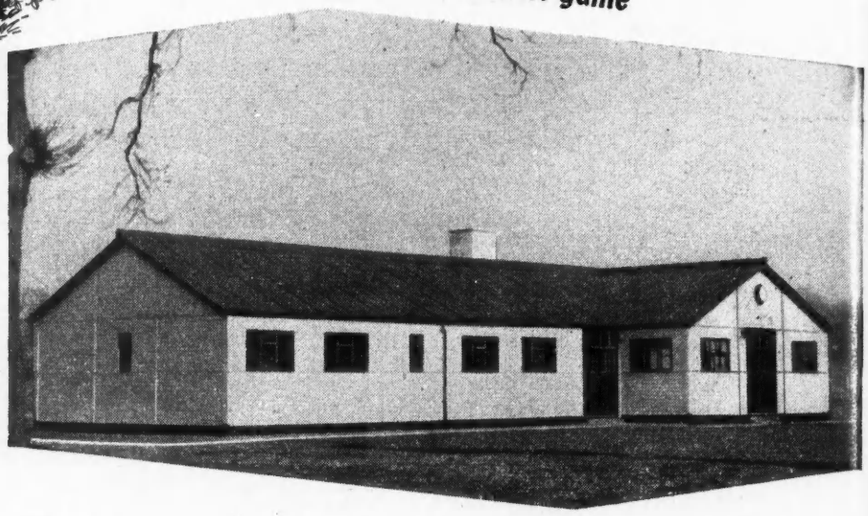

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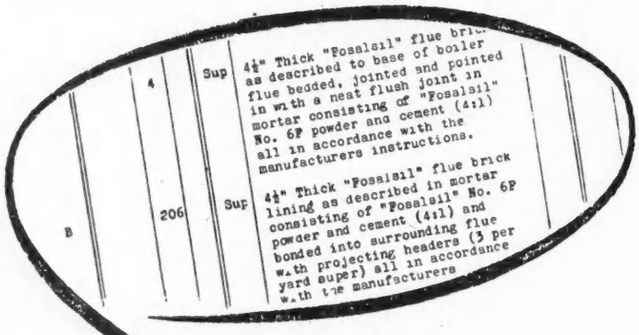

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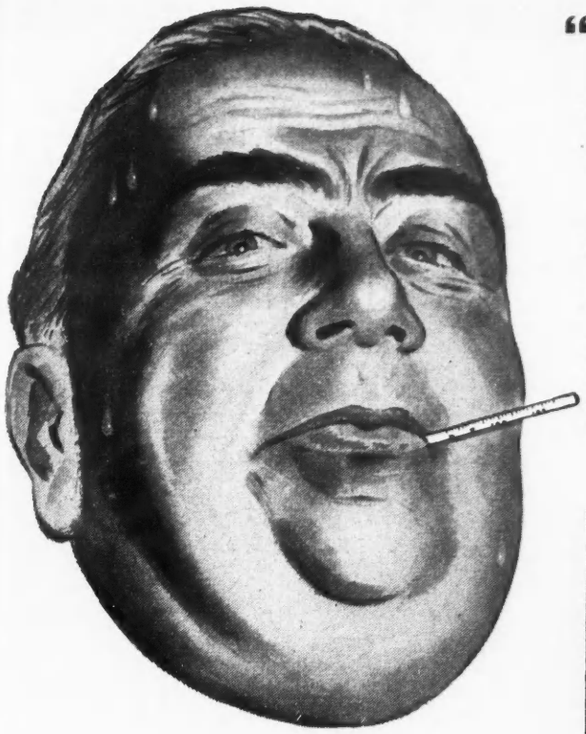

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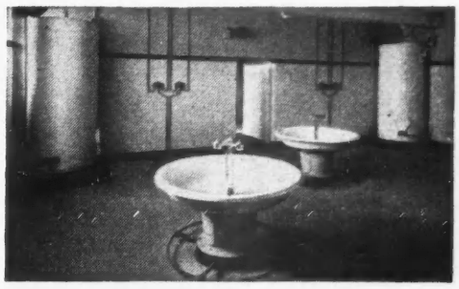

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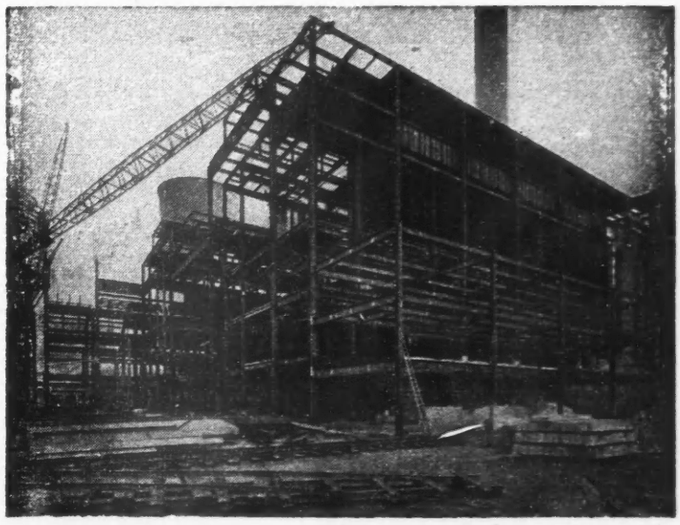

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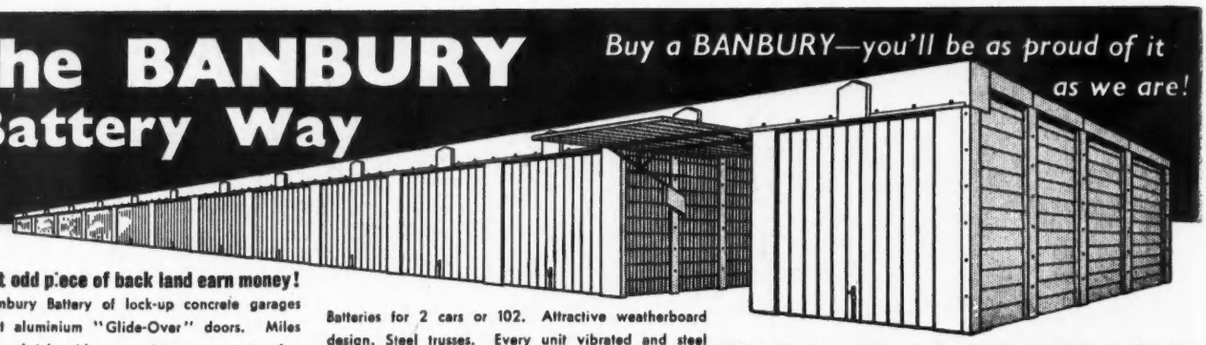

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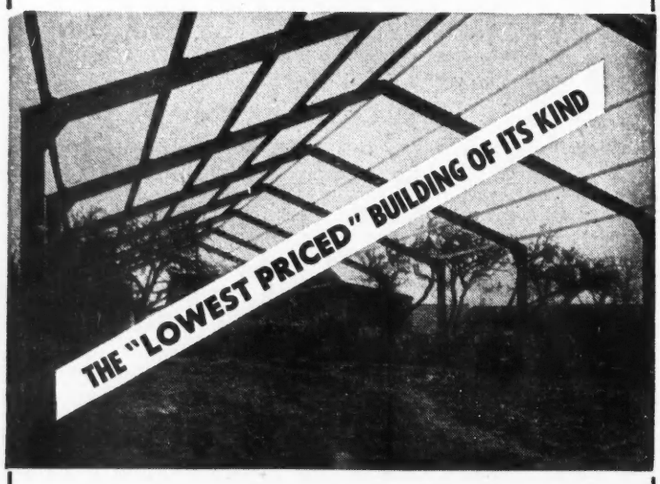

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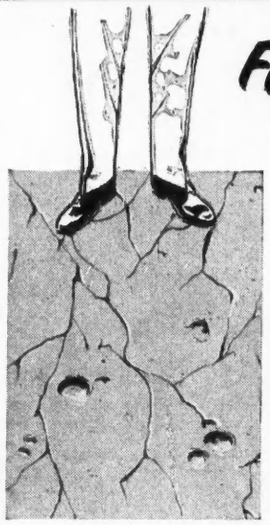

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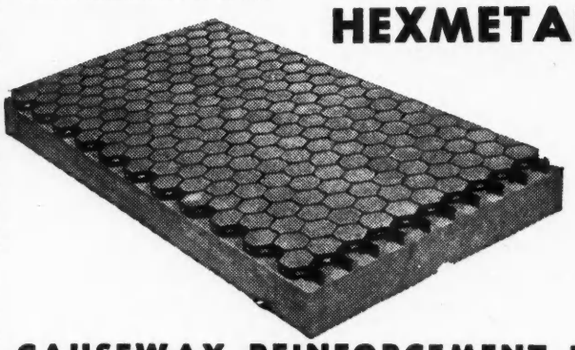

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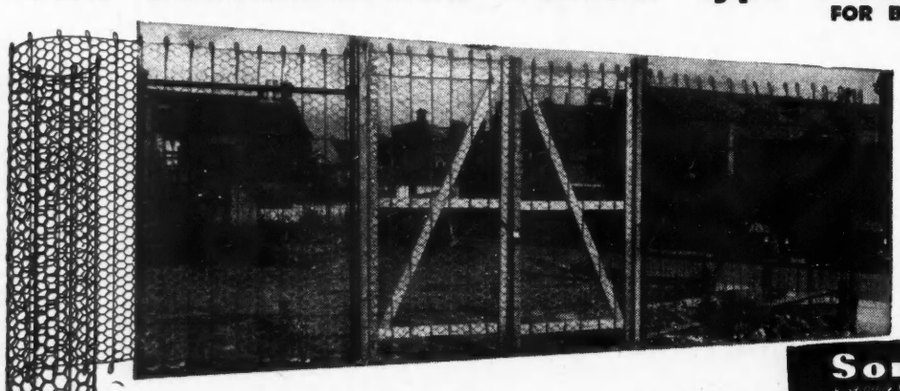

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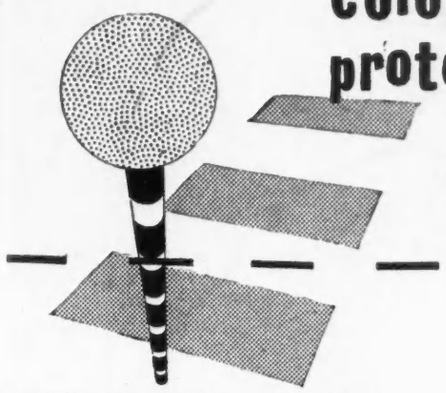

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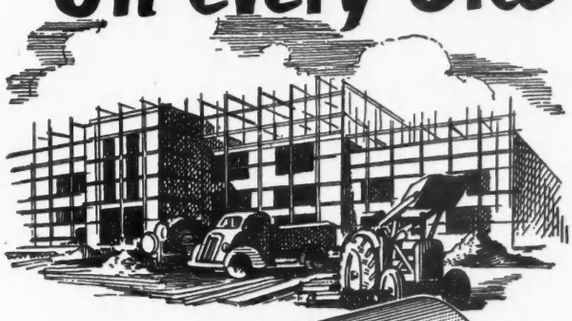

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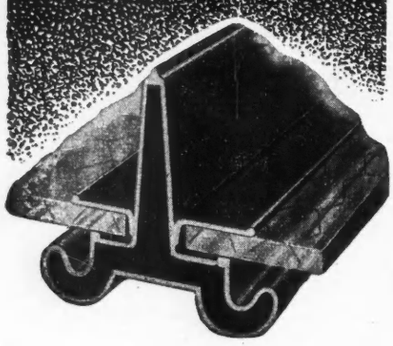

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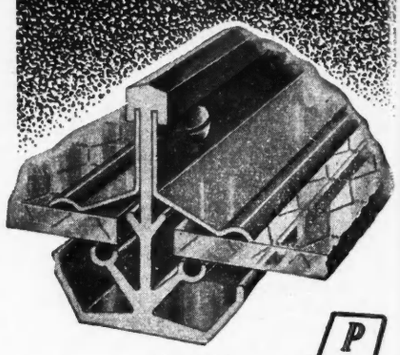

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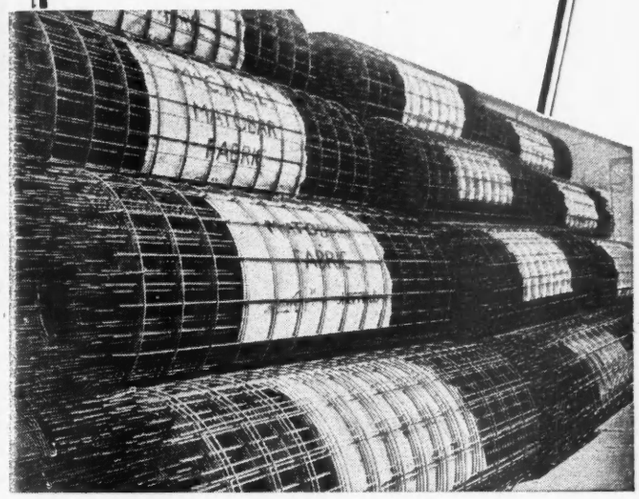

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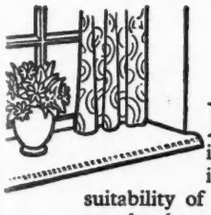

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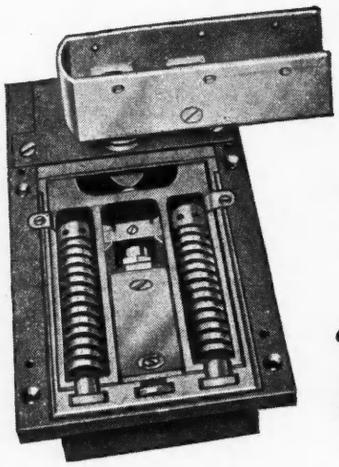

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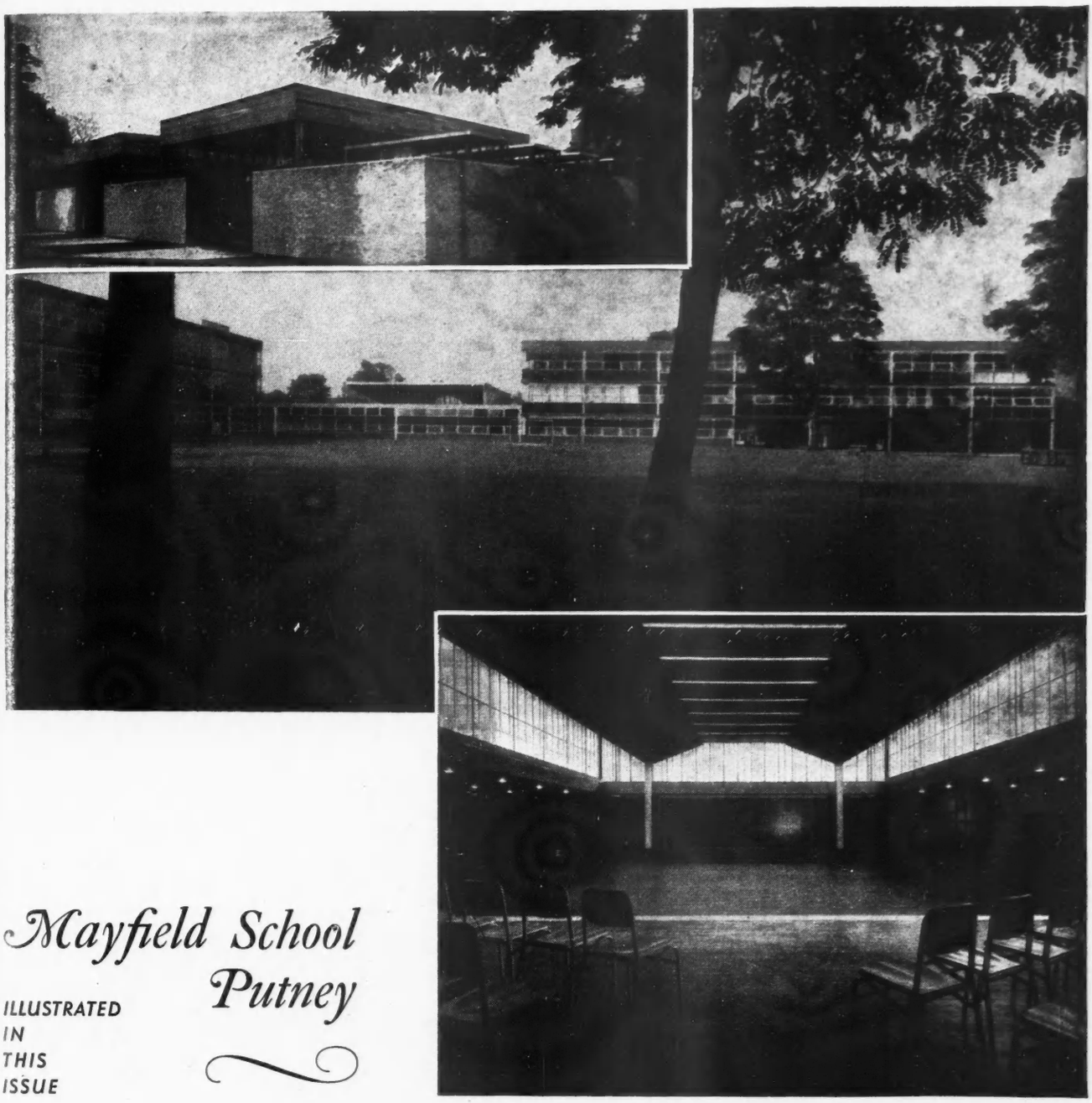

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Designed on clean precise lines the new King's Lynn Police Station will preserve law and order and will itself be preserved by the first class material used in its construction. 'PUDLO' Brand Waterproofer was selected for use in all the sub-floors to this building, the pipe ducts and the pit of the police car repair workshop. The lintels and door canopies and the door steps were all waterproofed with 'PUDLO'.

The composition of the 4" thickness of concrete sub-floors in which 'PUDLO' Brand Waterproofer was used was as follows:—4 parts of clean non-porous aggregate to pass $\frac{5}{8}$" mesh. 2 parts coarse, washed sand. 1 part of Portland Cement. 2 lbs. 'PUDLO' Brand Powder to each 100 lbs. cement. Only $1\frac{1}{8}$ lb. of 'PUDLO' brand Waterproofer was used per yard super for this thickness.

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The most reliable fire cement is FEUSOL! Have you tried it?

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Vol. CXCI August 17, 1956 No. 5916

NEWS SUMMARY

LORD MOTTISTONE has been appointed Surveyor of the Fabric of St. Paul's in succession to Mr. Godfrey Allen. *p.* 266

MORE HOUSES were completed last June than in June, 1955, *according to the Housing Progress Reports.* *p.* 284

THE EXTENSIVE building work undertaken by the Suez Canal Company in recent years in the provision of housing, schools and other amenities for staff is described by a correspondent. *p.* 286

MR. DUNCAN SANDYS, MoHLG, has stated that he is not prepared to give general approval for illuminated advertisements of an unspecified nature. *p.* 296

THE COUNTY COUNCILS' ASSOCIATION is asking the NFBTE to change the rule that members should not tender in competition for building works costing more than £3,000 *without bills of quantity.* *p.* 297

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RETHINKING INDUSTRY'S FUTURE

WHAT has been called " the great experiment " of the Duke of Edinburgh's study conference on the human problems of industrial communities has ended its first stage, and some conclusions drawn from it by Mr. W. Kirby Laing (who attended as representing the British building industry) are given on another page.

Like much else sponsored by the Duke of Edinburgh, this conference held within it the seeds of imagination while yet being essentially practical for all that it has dealt with intangibles; any matter such as a change of heart among management and labour in industry is an intangible, but vital none the less to future industrial welfare.

The problem which the conference members have sought to solve is one which has been expressed as how, in a time of full employment, is labour to be brought to understand that security. happiness and sense of satisfaction can only be won through the development of a sense of full responsibility to the particular enterprise in which employer and employed are joined; and, on the other side of the medal, how management generally can acquire that innate sense of personal interest in the wellbeing of workpeople, in the mass and as individuals, which is a characteristic of the best of 20th century employers.

No one at the Conference suggested that this is an easy task, the more particularly now when so much of industry is of so large a scale. But this very fact itself stresses the importance of the need to find solutions to situations such as the BMC dispute where both management and men felt that their case for action was good but where the over-riding point has been an interruption in production that can only have weakened, however temporarily, the enterprise in which both sides are joined and by which both exist.

Mr. Laing's prime interest in the Conference, as indeed is our's, has been to see what applications it may have to the building industry, and here his conclusions are of much interest. " There is," he writes, " a need of a greater realisation that an individual operative is not just a number in a time-book, but that he is a real person with real problems to be faced, and that he is a person who, if given the opportunity, can and will work happily." And again: " I feel, too, that our industry has a great deal to learn regarding improved communication of ideas and intentions. This applies right through the industry . . ."

Finally, Mr. Laing thinks, the industry needs to go much further in applying education to all grades of industry. " We need," he says, " to see real results from the various organisations dealing with education in the industry before any benefits can be felt in individual firms, and unless we are very careful these results will be produced too late." How are these better-minded men, so urgently needed by all sides of building, to be brought in, and how are present training methods to be adjusted to make place for inculcation of the principles, spiritual, surely, as well as technical, which the Duke's timely conference has so clearly spotlighted? This is something which the National Federation of Building Trades Operatives and the Board of Building Education should consider together, and urgently. The sands may well be running out.

VICTORIA STATION: Suggested scheme for redevelopment of the Victoria Station area. The tall block is a hotel proposed for Wilton-road, the main block facing the forecourt comprises railway offices, and to the right, facing Buckingham Palace Gardens, are proposed shops and offices. Messrs. T., P. H. and E. Braddock, F/ARIBA, are architects for the scheme (see Note)

Notes of the Week

Victoria Under Fire

EVEN the professionals may be excused for feeling confused by the spate of rebuilding schemes for Victoria Station. Hardly a week now passes without the appearance of some new plan for developing the terminal in one way or another, nor is the sense of confusion lessened by the fact that in some cases British Railways have declared that they have no knowledge of the project.

There are now five schemes before the LCC planning committee, the most recent of which was made public on Friday last. Sponsored by an investment trust for which Mr. Thomas Braddock, FRIBA, is architect, the plan—as shown by a perspective drawing on this page—involves the erection of an office block of 12 storeys facing the station yard, flanked on the Buckingham Palace-gardens side by a seven-storey block of shops and offices, and on the Wilton-road frontage by a 17-storey hotel. All buildings would be erected without interference with the operation of railway traffic.

The other four schemes before the council are: (a) for a multi-storey garage for a development company with which Cmdr. Rich is connected; an outline plan has been submitted; (b) for an office building, for which plans have been prepared by Messrs. Guy Morgan and Partners; (c) for mixed redevelopment to include an office block; Major A. S. Ash, FRIBA, is architect; and (d) for the creation of a public transport terminal, linking road, rail and air transport services and including some shops, restaurant, etc. For this plan Messrs. Gollins, Melvin and Ward are architects.

There is here some sort of parallel with Mr. Butlin's Channel swim competition; there are many entrants, but only one can win. We shall be interested to see which, if any, of the proposals is accepted by the railway and passed by the council. The loss of its present station itself would be little felt; it is not one which evokes affection as do Paddington and St. Pancras, not to mention Euston and Marylebone (most delightful of railway terminals). As the principal rail gateway to the Continent it could and should be improved.

St. Paul's Appointment

THE appointment of Lord Mottistone, FRIBA, as Surveyor of the Fabric of St. Paul's Cathedral is announced. Mr. Godfrey Allen, whose resignation as Surveyor after 25 years has already been referred to in these columns, hands over at the end of this year, and Lord Mottistone takes up his duties on January 1.

Lord Mottistone is partner in the firm of Seely and Paget, and, with Mr. Paul Paget, has been responsible for reconstruction after war damage of Lambeth Palace and Fulham Palace; he has also done work at Westminster Abbey and, with his partner, has designed the church which is now under construction to replace the City Temple at Holborn Viaduct.

The new Surveyor, who is 57, became Associate RIBA in 1926 and Fellow six years later. He is FSA and is chairman of the London Society.

Crediting Architects

WE ARE GLAD to note that Mr. C. D. Spragg, secretary of the RIBA, has written to the *Journal* of the Institute of Journalists to ask that members, when reporting functions connected with new buildings, should make mention of the architect responsible. In making the request, Mr. Spragg admits that omissions may in part be due to architects themselves "who in the past have been overmodest about seeing that their names are put forward, coupled with the feeling that such an action would be unprofessional." To help in this difficulty, the RIBA are to publish in the RIBA *Journal* an article explaining how members can help the Press by providing a proper hand-out on occasions when buildings are likely to be news.

This letter is timely, for buildings and the names of their architects are news, and we hope that our professional colleagues will note the point and do what they can to help.

Pylons or Power Stations?

THE late Sir Reginald Blomfield, at one time a President of the RIBA, would certainly have something to say about the objections now being made to the new grid system planned to bring power from pitheads in the north to industries in the south. Critics are objecting to the erection of pylons 136ft. high in a number of villages from Fleet in Hampshire to Burton-on-Trent, and so becoming part of the landscape in Hampshire, Berkshire, Oxfordshire, Northamptonshire, and Warwickshire. When pylons were first designed, the former electricity authority produced an ugly design prepared by engineers, but wisely asked Sir Reginald to see whether this could be improved from the architectural point of view. We owe the present design to him, and many of us who live in the country, and can see pylons extending across the view in front of our windows, consider that these are so graceful and lacelike that in many cases they cannot in any way be regarded as spoiling the landscape, writes B. S. Townroe.

It is a fact that already 465 miles of the super grid are in operation and this will continue to increase to about 1,600 route miles in four years' time. The alternative, however, is more power stations in the south of England. Apart from the menace of such bulky buildings, those who have had to live near them can testify to the constant nuisance from smoke. The power station in the reaches of the Thames near Reading at one time was a constant source of nuisance, and some who lived near complained that when they woke in the morning their pillows were black with smuts, and the only white part of the pillow surviving was that protected by their heads. Surely, if the choice is between pylons and power stations, even those who are the strongest supporters of the Council for the Preservation of Rural England prefer pylons, especially in the form as improved by an outstanding architect.

CORRESPONDENCE

Church Inspection Fees, Sheffield

To the Editor of *The Builder*

SIR,—As chairman of the Diocesan Advisory Committee, my attention has been drawn, by the Central Council for the Care of Churches, to a news item in the June 15 issue of *The Builder*, in which it was stated that the fee payable to an architect under the Inspection of Churches Measure in the Sheffield Diocese, was three guineas.

I gather that this has caused some alarm among members of the architectural profession. The fact is that the Sheffield Diocesan Scheme for the Inspection of Churches provides for a fee of 15 guineas for each inspection, provided by annual payments of three guineas during the quinquennial period. For this, the first £200 worth of repairs will be carried out without fee, though all additional work will naturally attract the normal professional fee.

I should be most grateful if this explanation could be made to prevent misunderstanding.

THE VEN. D. E. W. HARRISON,
Archdeacon of Sheffield.

393, Fulwood-road, Sheffield 10.

Mr. Wallis and the IoB

To the Editor of *The Builder*

SIR,—Your reference to the "IoB as a factor in Education," which appeared in your issue of August 10, and in which you mentioned something of Mr. Leslie Wallis's work as the immediate Past-President of the Institute of Builders, should, I think, not pass unnoticed. Every one in the building industry, both in England and overseas, who has been following very closely the activities of the Institute for the past few years, will agree with me that Mr. Wallis really needs to be highly congratulated for his good achievements. For this, I say, "Bravo," to him. The activities of the Institute for these last two years have lifted the big stone which over recent years has been blocking the road for young entrants into the industry.

Those of us in the colonies and, I am sure, in the Commonwealth too, look up to this country, as the mother country, to show a good lead. I should not say that we have been somewhat disappointed in the past, but I should say this—that the realisation that the Institute was being left behind by other professional bodies, and the prompt action it has taken during the last two years to catch up, has actually awakened many youths who have been previously discouraged. Not only this, it has also strengthened the activities of similar bodies in the Colonies and Commonwealth.

While congratulating Mr. Wallis on his achievements, I must also congratulate Mr. H. S. Oddie, the new President, and wish him success. We all know that the task is not an easy one. It is what I could liken to a building being erected on a site. The preliminaries and excavations have been done; it is now left for the builder to put up a nice building to the client's taste. Mr. Wallis has done the preliminaries and the excavation, and the industry now looks up to Mr. Oddie to put up a nice building, and, I am sure that with the support of every one in the industry, not forgetting the Joint Educational Board of Architects, Surveyors and Builders, set up early this year, success shall be his.

F. I. OSIKOYA.

39, Offley-road, London, SW9.

What is a "Rhone"?

To the Editor of *The Builder*

SIR,—I have read with some interest "Stripping roofs, rhones, etc., building-in grates" from a Scottish builder's invoice.

I wonder, as a matter of some interest, if you could tell me what is a rhone? Is it particular to Scotland or do we talk of rhones in parts of England?

RUPERT A. WHITE [AIAS].

Brickwoods, Ltd., Portsmouth.

Appointments and Retirements

THE QUEEN has approved that Mr. Arnold Joseph Taylor, FSA, be appointed a member of the Royal Commission on Ancient Monuments in Wales and Monmouthshire.

MR. DUNCAN SANDYS, Minister of Housing and Local Government, has appointed Mr. E. Stanford to be deputy chairman of the Crawley Development Corporation as from August 1. Mr. Stanford has been a member of the New Town Corporation since its establishment.

MR. N. COOPER, Deputy Borough Engineer, Gosport, has been appointed Deputy Borough Engineer, Nairobi, Kenya.

MR. L. H. POOLE, MIMunE, CRSI, Engineer, Surveyor and Water Engineer, Stourport-on-Severn Urban District Council, is to retire in November after over 40 years' public service.

"First it's a few days' strike, then off to Margate, then a Mediterranean cruise . . ."

*** The men who have been on strike at the Bucklersbury House site in the City returned to work on Monday.—ED.

TRIENNALE DI MILANO

1957 Exhibition of Decorative and Industrial Arts and Modern Architecture

THE eleventh Triennale di Milano, the international exhibition of modern decorative and industrial arts and of modern architecture, is to be held in Milan from July 27 to November 4, 1957. The organisers state that with its eleventh exhibition the Triennial is desirous of playing its part in the study and definition of the art problems closely linked to those of technology and economics, operating at a practical national and international level. The programme has been based on the following themes: relationship of the arts, contemporary architecture, and art production and industrial design.

The International Exhibition of Contemporary Architecture will document the development of architecture over the last ten years (1946-1956), the effort to organise it, the historical events and the individual and collective needs which have conditioned its technical and compositive values, and the call of the past. Collective or personal shows will be presented to reveal the major technical, economical and art problems.

In the growth and organisation of contemporary architecture, the problem of town planning viewed within its real boundaries, that of reconstruction and that of technical methods in the industrialisation of building with particular regard for the home, will emerge with special significance. Other questions of the moment, such as church architecture, will be dealt with suitably in the exhibition.

Museum lay-out will be another subject dealt with in the Exhibition of Contemporary Architecture. To elucidate how architecture must comply with the very latest trends in museum lay-out, this exhibit will resort to documents showing examples and proposals with a view to promoting thorough discussion of a problem which has up to now been properly tackled only in a few instances.

The International Home Exhibition will show a series of rooms or details of furnished homes. Each country exhibiting will thus be offered an opportunity to give a concrete example of how the problems pertaining to the home have been met by their production equipment. Special space may be allocated for the exhibition of furniture and individual pieces, whether unique or produced industrially.

The International Exhibition of Industrial Design will be organised with a view to showing, through an analysis of the object, the process by which the designer is led to interpret technical requirements in a given shape. The increasingly close bonds of co-operation between art and industry will focus the interests of the artist, the industrialist, the business man and the consumer alike on this exhibition.

Details of the Triennale can be obtained from Offices Palazzo Dell 'Arte Al Dano, Milan, Italy.

Woodford Borough Surveyor

MR. A. D. WARD, MInstCE, MIMunE, Engineer and Surveyor, Wanstead and Woodford Borough Council, is to retire.

OBITUARY

John B. Perks

WE announce with deep regret the death, which took place at University College Hospital on August 11, as the result of a cerebral hæmorrhage, of Mr. John Bernard Perks, general manager and executive director of *The Builder*. He was 42.

The elder son of the late Mr. Bernard W. Perks and of Mrs. Edith Perks, John Perks was educated at Colchester Grammar School and then joined the staff of Press Printers, Ltd., a subsidiary of Odhams Press, Ltd., printers of *The Builder*, to which newspaper he came in 1947 as assistant to his father. Following the death of his father in November of that year, he was appointed in succession in 1948 as general manager and executive director.

In addition to his work for *The Builder*, John Perks managed "The British Clayworker" and "The Architect's and Builder's Compendium" for companies associated with The Builder, Ltd. He was a member of council of the Periodical Proprietors' Association, and was chairman of the British Building Documentation Committee. In 1950 he made a tour of Canada on behalf of *The Builder*.

During the last war, he volunteered for the RAF, afterwards transferring to Air-Sea Rescue, and served on the West African coast and in the Channel, being Mentioned in Despatches for personal rescue work. He was this year's chairman of the Air-Sea Rescue Club. In 1951, he married Brigid, daughter of the late Mr. Osmond Bentley, son of John Francis Bentley, architect of Westminster Cathedral, and of Mrs. Bentley. To her and his two stepdaughters, as also to his mother and brother and two sisters, we extend our deepest sympathy in their loss.

John Perks had many friends in the advertising world and building industry to whom his passing at so early an age will come with a sense of shock and loss. Essentially a shy person, he was yet most kindly and could never refuse any call for help that came to him. He belonged to the London School Board Lodge of Freemasons, No. 2611, and was a member of the Devonshire Club.

Mr. B. Agard Evans, Librarian, MoW, writes: "I knew Mr. Perks particularly in connection with the British Building Documentation Committee, of which he had been chairman for the past five years. He was especially interested in the development of plans for the international exchange of information on building developments, methods, materials and techniques. He was extremely patient in pushing forward the plans, and I am only sorry that he has not lived to see the Committee's work crowned with greater practical success."

Cremation was at Mortlake Crematorium on Wednesday, when directors of The Builder, Ltd., members of the staff and many friends were present in support of his widow and family.

Alfred C. Conrade

WE LEARNED recently with much regret of the death of Mr. Alfred Charles Conrade, the distinguished artist, at the age of 92. He died several months ago at Prestwich, Lancs., where he had been living with his daughter and son-in-law since 1950.

G. J. Howling writes: A. C. Conrade was born in Leeds in 1863 and lived there till early manhood. He studied art at Dusseldorf Academy and also in Paris and Madrid, and settled in London about 65 years ago. He first made his mark as a designer of stage scenery and period costume for the theatre. On the death, in 1905, of Irving, whom he knew well, he gave up theatrical work and developed his art in other directions. He accepted the appointment of chief artist at the White City, famous for its Franco-British and other exhibitions before the first world war, and there his work included some fine decorative panels for a pavilion designed by the late Arthur T. Bolton. His best-known works in London were the large mural panels painted for Mercers' Hall, Cheapside, two on the east wall, copied from tapestries in the Prado at Madrid, representing "Theseus receiving the Ring of Minos" and "Ariadne marries Bacchus," and two on the west wall of the gallery, painted replicas of English tapestries in the National collections, representing "Hero mourning over the dead body of Leander" and "Scene from the Story of Troy." Unfortunately, these fine paintings were destroyed when the building was gutted by fire in the blitz of May, 1941. Other works included altar-pieces for several London suburban churches and (proof of his versatility) background scenes for tableaux at Madame Tussaud's.

In his later years Conrade turned to the painting of architecture both in oil and water-colour and his works were frequently exhibited at the Royal Academy and the Paris Salon. Commissions by architects took him to many parts of Europe. A large number of his architectural drawings were published at different times in *The Builder*, and a very successful exhibition of his paintings and drawings was held at the RIBA between the wars.

Conrade was a most accomplished artist. He had a fine sense of composition and colour and great delicacy of touch. He was, too, immensely prolific, drawing almost up to the day of his death. Physically, he was on the small side, but he had a fine head with delicate features of a somewhat Napoleonic cast. He was a frequent visitor to *The Builder* office where, in the upper room (generally filled with drawings and antiques) occupied by that now retired colleague, W. J. Wills, in whom he found a fellow enthusiast, he would discourse gently about the arts, rocking back now and again on his heels as, with head slightly cocked he pointed appreciatively with a black cheroot ("I love 'em *black*!" he would say), at some work of art that caught his interest.

Conrade was too modest for worldly success, but the day may well come when he will be recognised as one of the most sensitive artists of our time. A memorial exhibition of his paintings and drawings should be held as soon as possible.

H. W. Binns, FRIBA, FRICS

WE REGRET to announce the death, on August 11, at Woodbridge, Suffolk, of Mr. Henry William Binns, FRIBA, FRICS. He was 76.

F. A. Dryland

THE London Builders' Foremen's Association regret to announce the death on August 2 of Mr. F. A. Dryland, after a long illness, at the age of 72 years. A founder member of the association from whom much of the status it now enjoys derives, Mr. Dryland was 11 years secretary and treasurer, and in 1954 he was president; thus (writes Mr. W. R. Taylor), his life-long ambition was achieved, and fulfilled with distinction.

His interest in the building industry never waned. When Ewell Technical College was opened, he became a member of the Board of Governors as the delegate of the London Regional Council of Builders' Foremen and Clerks of Works.

As a general foreman, many large contracts were completed under his supervision, among the early ones being Braintree Town Hall and the Imperial Airways Headquarters. Since 1945 he had been connected with Battersea Festival Gardens. His last contract—truly a memorial to a distinguished career—was the Royal College of Surgeons, on the site of which he was presented to HM the Queen, on the occasion of the foundation stone laying. To all those who knew and admired him, he will remain in memory as an example of a full life which all might follow, in which his greatest asset was sincerity.

Many sections of the industry assembled at Sutton Cemetery on August 9 for the funeral service, including: Mr. G. H. A. Hughes, OBE, director of the LMBA; Mr. W. A. Cole-Adams, FRIBA, Architect to the Royal College of Surgeons; Mr. L. A. Burd (Humphreys Ltd.); Mr. A. Coman (Clerk of Works, Royal College of Surgeons); Messrs. J. F. Beagley, J. S. Rigden, and W. R. Toogood (The London Association of Builders' Foremen and Clerks of Works), Mr. A. C. Taylor (The Provident Institute of Builders' Foremen and Clerks of Works), and the following representing the LBFA: Messrs. H. T. Piesse, S. G. Stone, C. E. Pocock, W. Trickey, G. W. Gathercole, W. F. Simpson, F. G. Ball, F. Simpson, A. Wright, and W. R. Taylor.

Thomas Burrows

WE REGRET to report the death of Mr. Thomas Burrows, formerly Surveyor and Water Engineer to Lathom and Burscough UDC before the district was amalgamated with Ormskirk in 1931. Mr. Burrows afterwards continued his service on the surveying staff of Ormskirk Council. He was 80.

Industrial Safety Award

THE Sir George Earle trophy for industrial safety—a silver Georgian inkstand—which Sir George Earle, chairman of the Associated Portland Cement Manufacturers, Ltd., presented to the Royal Society for the Prevention of Accidents, for annual award for an outstanding achievement in the cause of industrial accident prevention, has been awarded to HM Inspectors of Factories "in recognition of their many years of outstanding contribution to the prevention of accidents in industry, by their own individual, endeavours, their valuable support of the voluntary accident prevention movement in the United Kingdom, and their example, which has been followed by many countries throughout the world." The trophy was presented at the Society's National Industrial Safety Conference, at Scarborough on May 11-13.

OFFICES

for the National Dock Labour Board, Albert Embankment, London, SE11

Architect: FREDERICK GIBBERD, CBE, FRIBA, MTPI

Partner in charge: A. E. KELSEY, FRIBA

Associate architect: FELIX DARNELL, ARIBA, AMTPI

Consulting Engineer: F. J. SAMUELY, BSc, AMICE

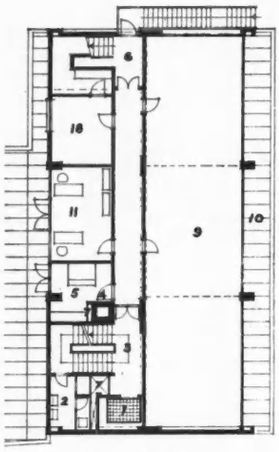
Quantity Surveyor: OSWALD E. PARRATT, FRICS

Builders: WATES, Ltd.

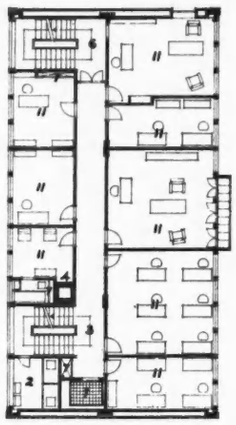
THE function of the building as the headquarters of the Board made the requirements very different from an ordinary office building. Instead of large floor spaces, generally for an unspecified use, the requirements were exactly known and they varied very considerably in size and character. The resultant basic form is a 10-storey, narrow, vertical block parallel to the river front, with the main stairs and lifts at one end and an escape stair at the other.

Large areas were required on the ground floor for machine rooms, lavatories and garaging cars, so the building extends over the rear of the site with top lighting. Access to the rear portion is by a drive which passes through the building.

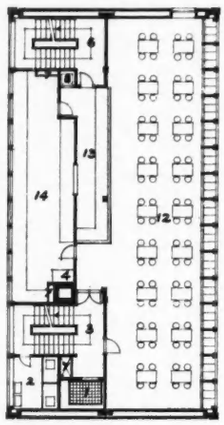
The 110 ft. tall block which faces the river has a frontage of about 70 ft. ; it is 35 ft. 6 in. deep and rises



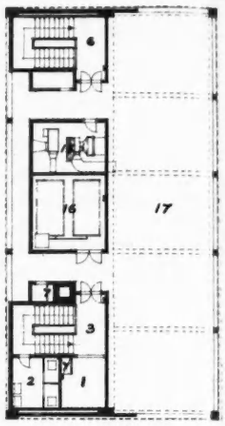
1st Floor Plan



4th Floor Plan



9th Floor Plan



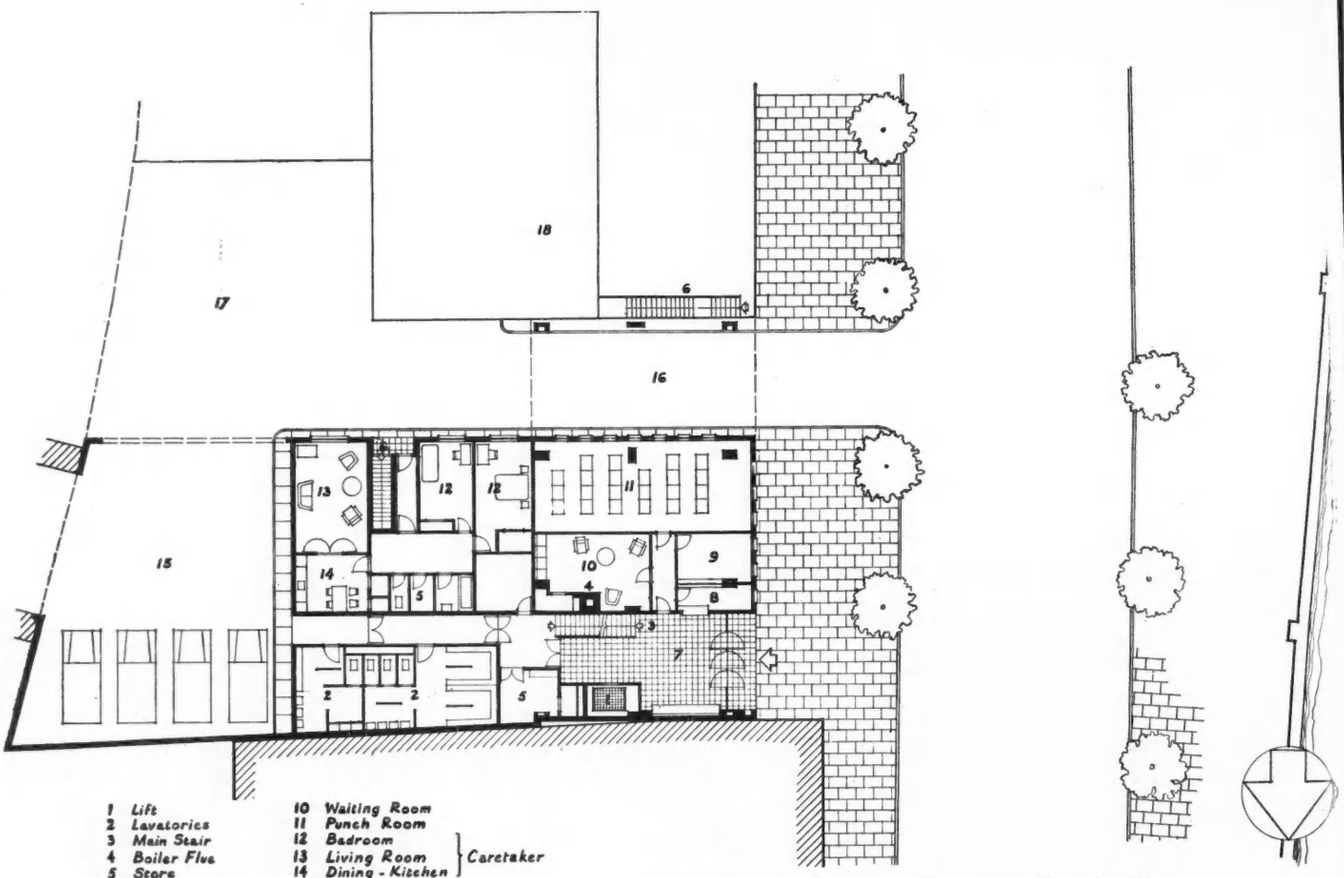
Lower Roof Plan

1 Lift
2 Lavatories
3 Main Stair
4 Boiler Flue
5 Photoscope Room
6 Escape Stair
7 Duct
8 Service Lift
9 General Office
10 River Terrace
11 Offices
12 Canteen
13 Servery
14 Kitchen
15 Fan Room
16 Tank Room
17 Roof Terrace
18 Workshop

10 0 10 20 30 40 50 60 feet

UPPER-FLOOR PLANS

Scale: 1 inch = 32 feet



1 Lift
2 Lavatories
3 Main Stair
4 Boiler Flue
5 Store
6 Escape Stair
7 Main Entrance Hall
8 Porter
9 Switchboard
10 Waiting Room
11 Punch Room
12 Bedroom } Caretaker
13 Living Room } Caretaker
14 Dining - Kitchen } Caretaker
15 Garage
16 Way Through
17 Service Yard
18 Carter's Proposed Building

10 0 10 20 30 40 50 60 feet

GROUND-FLOOR PLAN

Roof terrace

from a deeper single-storey structure. There are 10 storeys, giving some 30,000 sq. ft. of floor space.

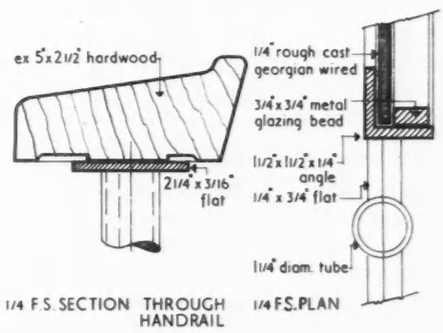
At first-floor level the front is set back to give a riverside terrace and the roof is also designed to be used in this way. A boxed-out balcony is provided on the fourth and seventh floors, while the staff dining-room on the ninth floor has a window overlooking the river for the full length of the west side. There is also a balcony at the back of the building at eight-floor level.

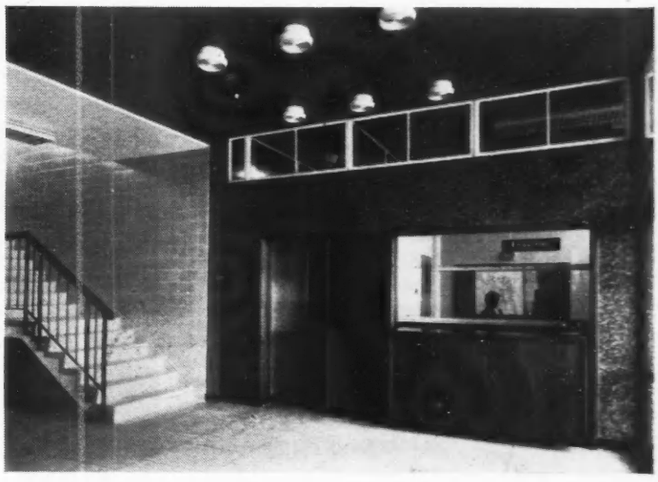
The building is constructed with concrete beams, slab floors, and a series of external frames on each floor. Above the second storey, precast-concrete is used for almost the entire structure, and precast prestressed concrete planks are used in all the floors.

The foundation is an *in situ* concrete raft, 4 ft. thick, which forms the slab floor of the basement. Since it was necessary to excavate to a depth of 22 ft. for the foundations and the water level is at 18 ft., pumping equipment had to be used during construction and the foundations have been lined in asphalt.

A large room in the basement has been designed as a shelter against atomic attack; the *in situ* reinforced concrete walls and roof are respectively 1 ft. 6 in. and 2 ft. thick. Similar construction has been used for the basement strongroom.

In each storey *in situ* columns are placed down the length of the building at 22 ft. intervals and support a concrete spine beam (the spine beam on the fifth floor is partly *in situ* and partly precast ; on the ground and first floors the beams are *in situ* ; elsewhere they are entirely precast).





Porter and inquiries

Main entrance

A composite concrete floor slab spans from the spine beam to external portal frames on either side of the building—distances of 19 ft. and 16 ft. 6 in. The floor slabs consist of precast, prestressed T-section concrete planks with an *in situ* topping; the roof slab is also constructed in this way. The 2-in. thick topping is cast on permanent asbestos-cement formwork, carried on metal clips which are sprung over the webs of the prestressed planks. The castellations formed by the tops of the planks are bonded with the *in situ* concrete. Suspended ceilings are used.

The external frames each consist of two uprights and two horizontal members. The uprights act as mullions and windows span between them, and the horizontal members act as cill and head beams. The frames are bolted together vertically and joined horizontally by the cill and head beams of windows between the frames. For the greater part of the building, continuous horizontal rows of windows alternate with rows of storey-height precast-concrete exposed aggregate slabs. The aggregates used for these slabs are Derbyshire Spar and Hopton-Wood stone. The ground floor is faced with terrazzo and panels of faience are used on the top floor to provide a colour contrast. The first floor will have a cladding of concrete slabs faced with polished exposed aggregate.

The end walls are composed of precast corner columns and of triangular precast-concrete frames (each with an *in situ* vertical member), which are designed to act with the floor slabs in providing wind bracing. Behind these columns and frames is an inner skin of concrete breeze blocks, and in front of them precast-concrete facing slabs of storey height. Throughout the building the corner columns are recessed to allow for hidden ducts.

The precast units are bolted together and the joints subsequently grouted ; this gives complete rigidity and continuity of structure.

Generally, the construction is repeated from floor to floor, except that on the second floor an *in situ* ring beam, 5 ft. 6 in. deep is contained in the external walls, and in the sixth floor an *in situ* reinforced concrete wall is provided to alter the continuity of the columns supporting the spine beam on the floor above.

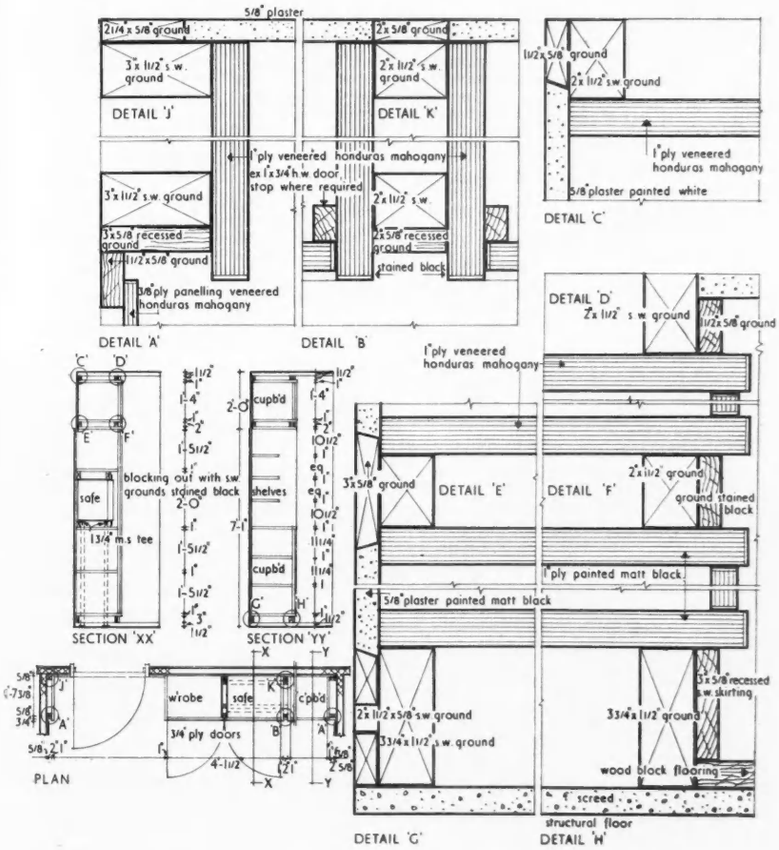
The three precast-concrete balconies are fixed by means of reinforced-concrete bars protruding from the floor slab. The staircases are of *in situ* concrete on the lower floors and precast above second-floor level.

All the precast units were factory made and very detailed planning and close co-operation between the architect, engineer and contractors was necessary, both to arrange the output of units as required and in the actual work of construction on the comparatively confined site. This co-operation and forethought has been amply repaid in the increased economy and efficiency of working. A tower crane was used, with a comparatively small labour force of 15 to 20 men. The units were unloaded from the lorries by the crane and placed directly into position : the average rate of construction of the frame attained by this method was a storey per working week.

The internal finishes follow general practice for a building of this character, excepting that individual treatment is given to rooms with special functions. For example, the canteen has a sound absorbent slotted fibrous plaster ceiling ; the Board Room an Opepe wood block floor, golden laurel wall panels, and a fibrous plaster ceiling. Opepe wood block floors and walnut, sycamore, and mahogany panels have also been used in the rooms for the senior Officers of the Board, in order to provide a suitable background for the reception of delegations and visitors. In all cases the soft furnishing, furniture, and colour schemes have been selected to create comfortable working conditions and to complement the general design.

Staff dining-room

Chairman's office



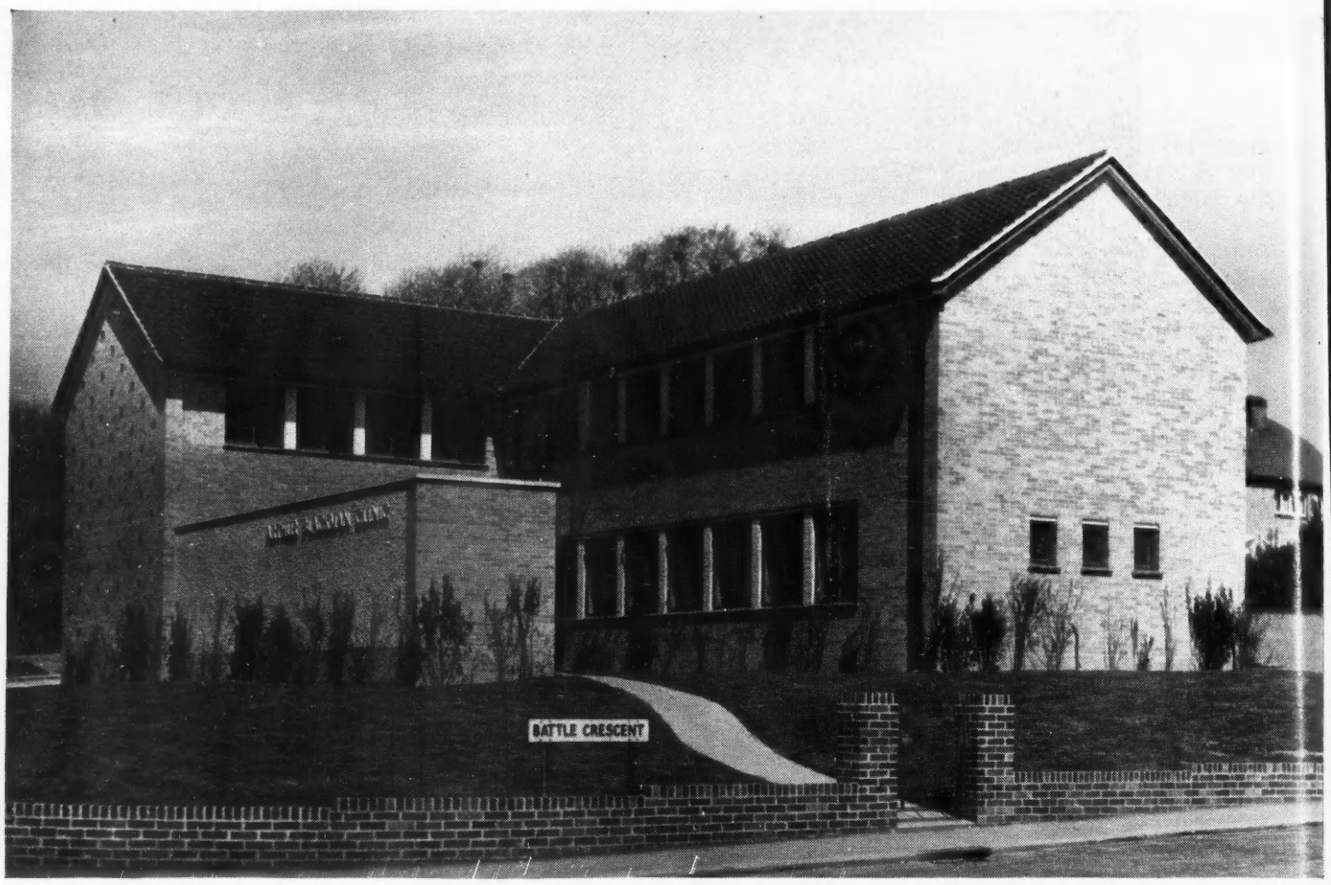
TYPICAL JOINERY DETAIL, General Manager's Office

Scale: One-fifth full size

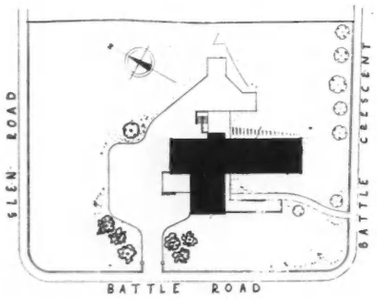
National Dock Labour Board Building, SE11

Sub-contractors and suppliers:

Automatic telephone alarm, Burgot Rentals, Ltd.; lightning conductor installation, R. C Cutting and Co., Ltd.; ventilation and heating engineering, Earley and Noon Heating Co., Ltd.; plumbing, W. H. Earley, Ltd.; partitions, Esavian, Ltd.; rolling shutters, Haskins Rolling Shutters; white glazed tiling, A. H. Herbert and Co., Ltd.; lettering, Lettering Centre; electrical installation and alarm, London Electricity Board; balustrading, externally, Light Steelwork (1925), Ltd.; bronze tablet and plaque, H. H. Martyn and Co., Ltd.; lifts, Marryat and Scott, Ltd.; terrazzo paving, Standard Pavements Co., Ltd.; canteen equipment, Summerling and Co., Ltd.; metal windows, Williams and Williams, Ltd.; painting works, J. W. Alder and Son, Ltd.; doors screens and panels, D. Burkle and Son, Ltd.; Colterro lath suspended ceilings, W. H. Colt (London), Ltd.; asphalt work tanking, etc., Excel Asphalte Co., Ltd.; glazing, Faulkner Greene and Co., Ltd.; " Paropa " flat roofing, Frazzi, Ltd.; hardwood handrail, E. H. Higginson and Co., Ltd.; staircase balustrade, Light Steelwork (1925), Ltd.; tiling to floors, Marley Tile Co., Ltd.; hardwood flooring, Philip Flooring Co., Ltd.; granolithic work, plastering, etc.; W. A. Telling, Ltd.; fibrous plaster work, Veronese; main entrance doors, C. E. Welstead, Ltd.; joinery, Humphreys, Ltd.; doors, Gliksten, Ltd.; industrial steel shelving, Acrow (Engineers), Ltd.; grilles, F. H. Biddle, Ltd.; prestressed units, Costain Concrete Co., Ltd.; sanitary fittings, Dent and Hellyer, Ltd.; safe door, Milners Safe Co., Ltd.; ironmongery, Parker, Winder and Achurch, Ltd.; precast concrete cladding and structural members, Wates, Ltd.



Arthur Blackman Clinic, Hollington, Sussex



E. O. BAXTER, MEng, AMICE, MIMunE,
Hastings Borough Engineer

STANLEY RIPLEY, DipArch, FRIBA,
Architect in Charge

CASTON & PORRITT
Quantity Surveyors

RINGMER BUILDING WORKS, Ltd.
Builders

THIS is the first of two new identical clinics to be built by the Hastings Education Authority, and is designed to serve the Hollington area, while the second, which is under construction, is situate in the opposite part of the town.

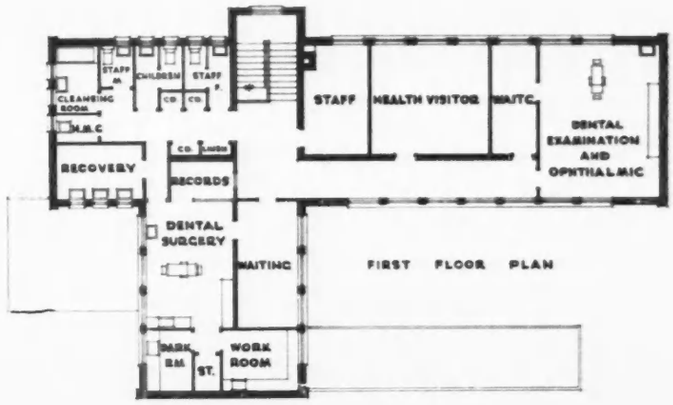
The sites for the two clinics are very different in shape and size, but both face arterial roads and have similar orientation. Due to the need for extreme economy, simplicity in treatment was observed. In order to prevent noise of traffic and to maintain privacy, all rooms were screened by corridors and/or the pram store. Although this did not generally assist elevational treatment, by careful planning and detailing a pleasing result was achieved.

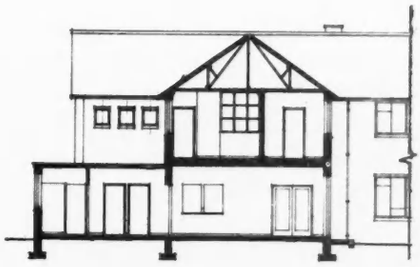
Immediately beyond the entrance hall is a large waiting hall, also entered from the pram store, which forms the assembly space for patients, but is also designed for use by large and small meetings. This hall can be divided into two smaller areas and used independently for cinema projection, visual aids and instruction for health and other educational purposes.

There is easy access from the waiting hall to the pre- and post-natal section on the ground floor while the dental and ophthalmic departments are provided on first floor.

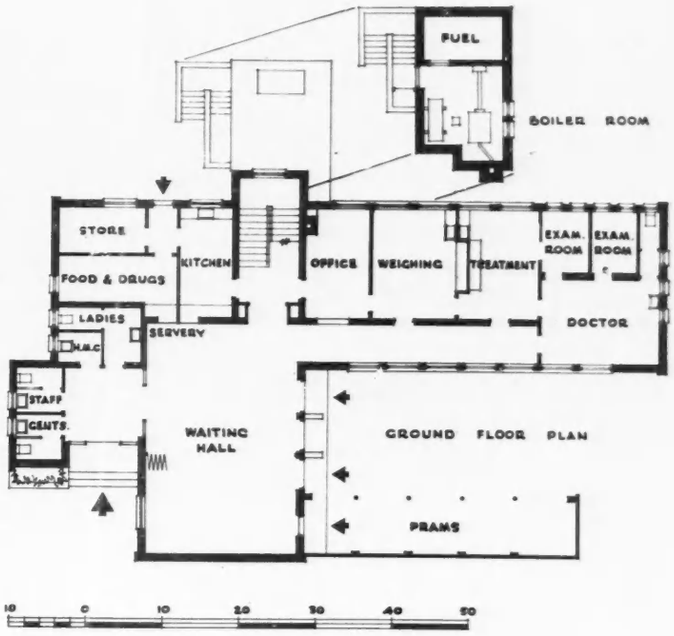
The floor over the waiting hall is precast prestressed (post-tensioned), necessitated by the need to span a large area with a minimum of floor thickness and to

Arthur Blackman Clinic, Hollington, Sussex





SECTION

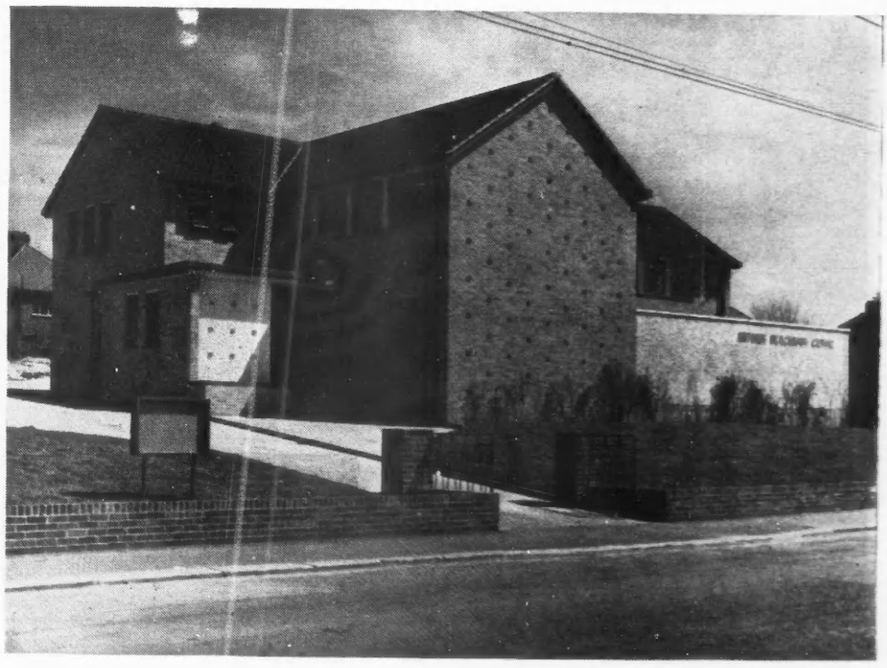


provide a ceiling without an obstruction of beams. The whole of the first floor is covered by a 2-in. thick vermiculite screed for sound absorption and all floors are covered with thermo plastic tiles and coved skirtings. The walls are 11 in. cavity brickwork with golden buff facings, and dark wirecut headers are used for decorative treatment. The roof is constructed with Timber Development Association standard trusses covered with Anglia pantiles.

Heating and domestic hot water is provided by an automatically-fired solid fuel Crane boiler rated at 312,000 B.T.U.'s per hour with external thermostatic control. This installation allows for two air changes per hour in each room. The contract figure of the building is £17,539.

Sub contractors and suppliers:

Precast and post-stressed concrete floors, C. Gould and Co., Ltd.; heating and domestic hot water, G. N. Haden and Sons, Ltd.; electrical installation, R. P. Biker, Ltd.; asphalt roofing and tanking, Ragusa Asphalte Paving Co., Ltd.; metal windows, Henry Hope and Sons, Ltd.; Marley floor tiles, Hall and Co., Ltd.; roofing tiles, The Marley Tile Co., Ltd.; bricks, The London Brick Co., Ltd.; ironmongery, James Gibbons, Ltd.; sliding door gear, E. Hill Aldam and Co., Ltd.; flush doors, Gliksten Doors, Ltd.; dental equipment, Amalgamated Dental Trade Distributors, Ltd.; lettering, Dales (Lettering), Ltd.



From Battle-road

MAYFIELD COMPREHENSIVE SCHOOL

Architects: POWELL & MOYA

Assistant in charge: ROBERT HENLEY, ARIBA

Assistants: PETER JONES, ARIBA, & PETER STEWART

Consultants: Structural: OVE ARUP & Partners

Heating: J. ROGER PRESTON & Partners

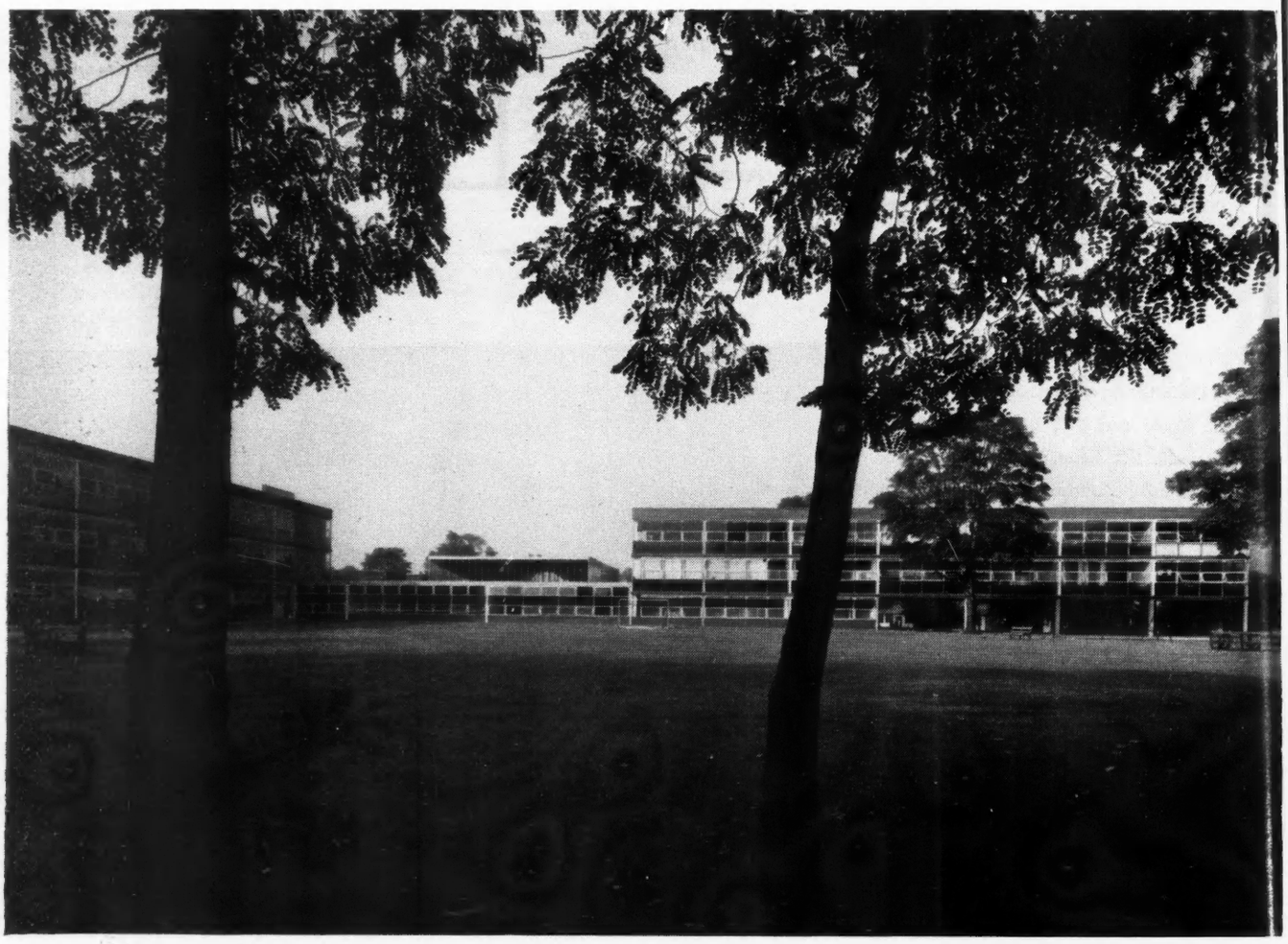
Electrical: JOSEPH RAWLINSON, CBE, MEng, MInstCE
Chief Engineer of the LCC

Quantity Surveyors: DAVIS, BELFIELD & EVEREST

Clerk of Works: F. WRIGHT

Builders: C. MISKIN & SONS, Ltd.

View from West Hill



FOR GIRLS, PUTNEY, SW15

GENERAL requirements were additional buildings to an Edwardian-built Girls' Grammar School; 1,620 new places were to be provided.

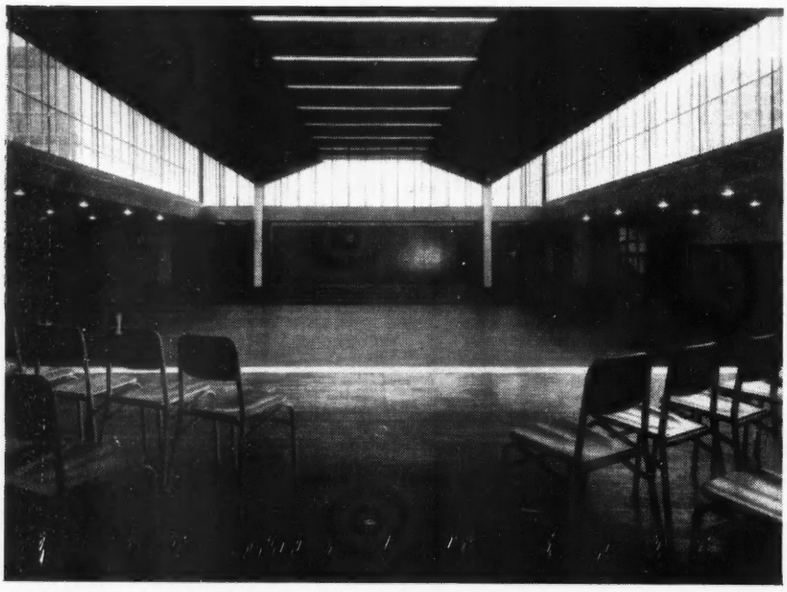
The site of about four acres was increased for the new extension to nine acres by taking in adjacent bomb-damaged properties. The ground slopes gently up from east to west—about 4 ft. along the length of the site reserved for the new buildings. The bearing soil is good.

The main structural walls are internal brick cross walls (common brickwork 9 in. thick at all floor levels). First and second floors are of prestressed reinforced concrete and roofs of timber. The walls provide better sound proofing between classrooms than is usual. In the few positions where a solid wall is not practicable it has been replaced by a R.C. beam and columns. External walls (except the short portions at or near the ends of the blocks) are non-structural and consist mainly of windows.

Night-time view

The Assembly Hall

Interior

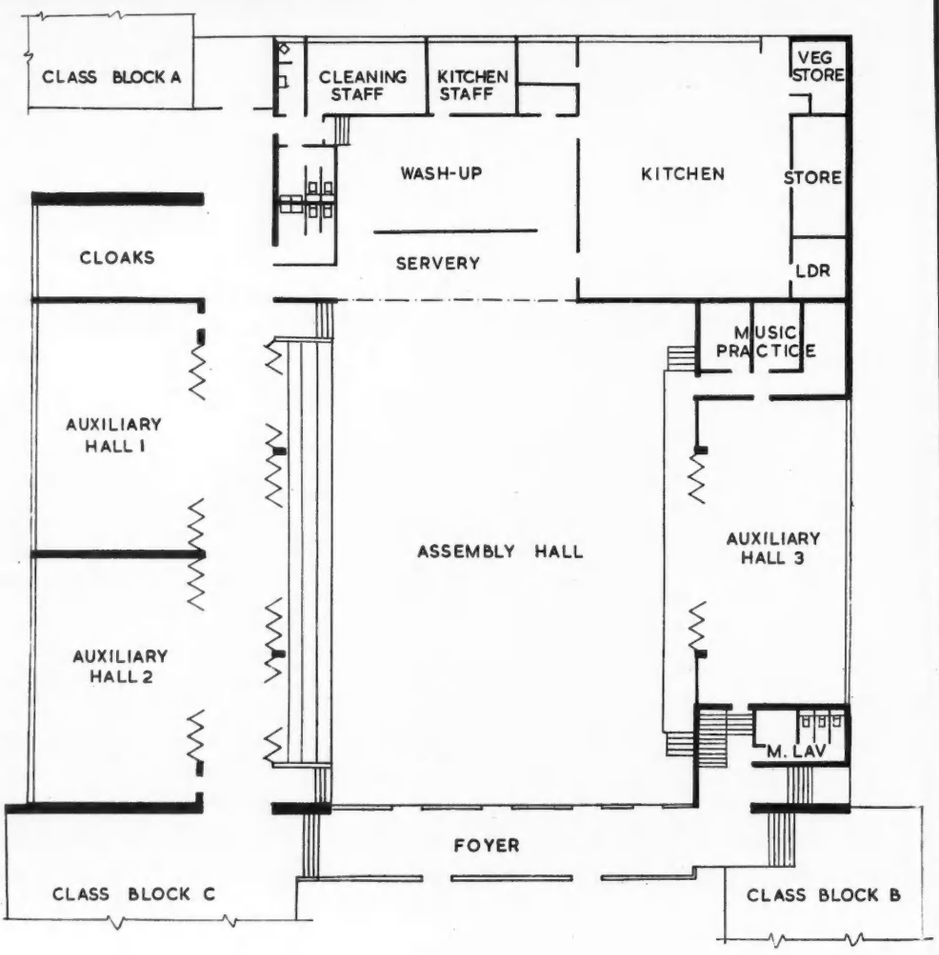


The assembly hall roof is supported on exposed rolled steel columns and consists of two steel space frames like inverted hipped-end pitched roofs. To avoid free-standing columns the side aisles are suspended from the roof frames by steel rods. The kitchen roof is steel and timber supported on load-bearing mullions, the boiler house roof of prestressed reinforced concrete, and the gym roofs are of timber (hardwood trusses on hardwood posts which are supported on load-bearing brick walls).

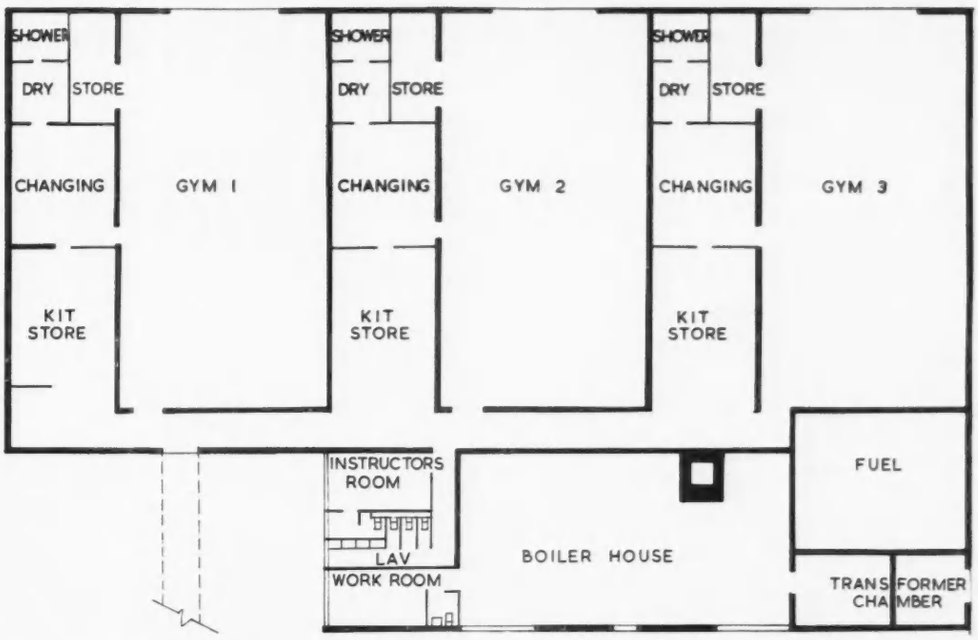
Costs: Tender price (i.e., gross cost), £314,311, or £194 per place. (Allowable gross cost per place, approximately £280.) Net cost (i.e., excluding external works), £288,650, or £178 per place. (Allowable net cost per place at time of planning was £250.) Area of accommodation per place (including covered play area), 67 sq. ft.

Construction and Finishes : Teaching blocks. Foundations : Strip concrete, the bottoms of which are about 3 ft. 6 in. below ground level. *Ground slab :* 3 in. blinding concrete (no hardcore), damp-proof membrane, 4 in. concrete, 1 in. screed. *Structural walls :* 9 in. common brickwork, when internal with white glazed bricks bonded in at the external exposed ends. Where external, 13½ in. brickwork with London stock facings.

First and Second Floors : Prestressed clay planks with hollow tile filling and structural concrete topping, spanning generally 24 ft. from wall to wall. The exposed external edges of these slabs are faced with ¾ in. slate, fixed back with bronze cramps. On the south and west faces the edge of the slab has a 6 in. deep recess for housing the venetian blind boxes and the tops of the blinds. *Roofs :* Softwood trusses spanning on to the cross walls, light timber joists, 2 in. wood-wool slabs, mesh reinforced screed, built-up three-ply roofing felt with granite chipping finish—no falls. The fascias are of red cedar T and G boarding with a backing of ¼ in.

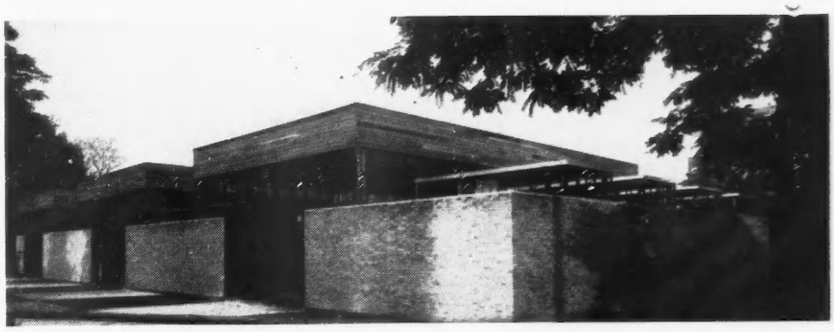


PLANS, Scale: 1 inch = 32 feet



The Gymnasium

Column supporting space-frame



Exterior

Mayfield Comprehensive School for Girls

Interior

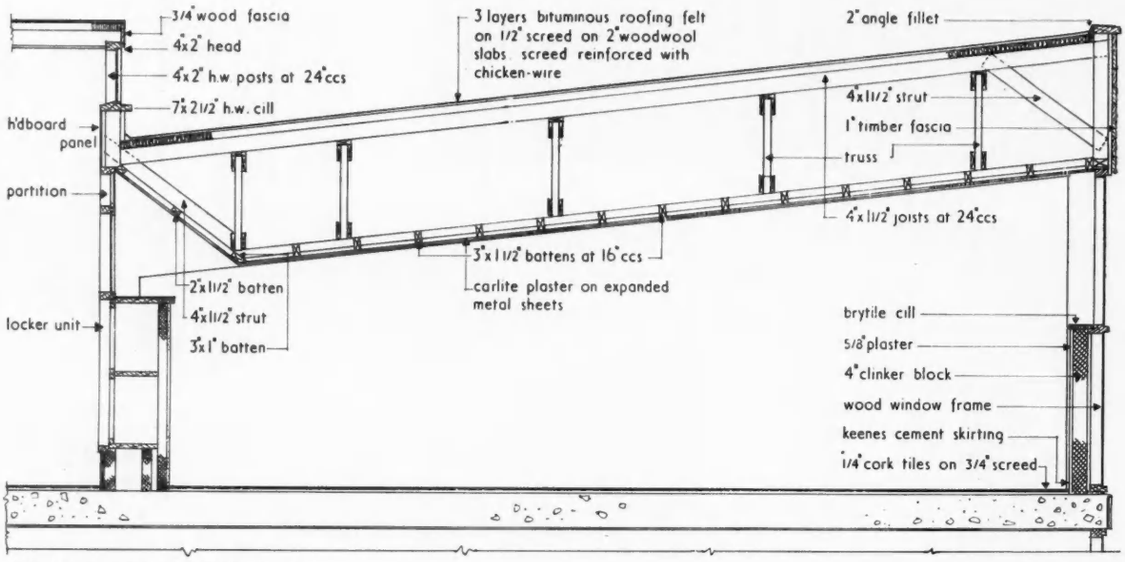
asbestos cement sheets and building paper. The flashings are aluminium.

External infilling walls: Floor to ceiling height oiled hardwood frames, glazed. Opening lights in galvanised steel. Below window cills coloured stove-enamelled asbestos cement sheets are screwed to the back of the hardwood frames which are glazed with ¼ in. rough cast glass, and internally an independent skin of 4 in. lightweight clinker blocks. *Partitions:* Generally of reinforced plaster.

Joinery: All joinery is of African mahogany treated with two coats of alkyd rubber varnish (matt finish).

Internal finishes. Floors: Generally light grey studded rubber tiles. Laboratories and housecraft rooms: P.V.C. sheeting. Pottery room and lavatories: Quarry tiles. Stores, etc.: Thermoplastic tiles. Staircase: Granolithic landings and risers; black quarry tile treads. Walls: Generally plastered, with emulsion paint finish. The flank walls to the main staircase in the Eastern block are finished in vitreous mosaic. One mosaic is of abstract pattern, the other portrays the nine muses. The mosaic artist is Philip Suffolk. Ceilings: Generally medium hard plaster, otherwise asbestos spray finish, and lightweight vermiculite plaster.

Mayfield Comprehensive School for Girls



DETAIL OF CLASSROOM ROOF CONSTRUCTION

Exterior of classroom block

Sub-contractors and suppliers:

Heating and mechanical services, Barrett and Wright, Ltd.; pre-stressed concrete floors, Costain Concrete Co., Ltd.; damp-proof course, C. M. Callender and Co., Ltd.; bricks, Richard Parton, Ltd., Stoneware, Ltd.; wood window frames, Walter Lawrence and Son, Ltd.; slate facings, The Bow Slate and Enamel Co., Ltd.; steel windows, The Crittall Manufacturing Co.; structural steelwork, Carter-Horseley (Engineers), Ltd.; electrical installation, The Berkeley Electrical Engineering Co., Ltd.; boiler house chimney, Chimneys, Ltd.; balustrading and metalwork, The Birmingham Guild, Ltd.; tarmacadam, A. C. W. Hobman and Co., Ltd.; lightning conductor, W. J. Furse; patent glazing and aluminium windows, Aygee, Ltd.; chain link fencing, Chain Link Fencing, Ltd., Peerless Fence and Products, Ltd.; precast concrete, Malcolm Macleod and Co., Ltd.; terrazzo, W. B. Simpson and Sons, Ltd.; bituminous felt roofing, William Briggs and Sons, Ltd.; main staircase steelwork, Scaffolding (Gt. Britain), Ltd.; sanitary fittings, Stitsons Sanitary Fittings, Ltd.; asbestos spray, Turners' Asbestos Cement Co., Ltd.; stove enamelled asbestos, The Atlas Stone Co., Ltd.; cill tiles, McKenzie Brytiles, Ltd.; glass domes, T. and W. Ide, Ltd.; doors, Veneercraft, Ltd.; wall tiling, Dennis M. Williams; roller shutters, Dennison, Kett and Co., Ltd.; wood block and strip flooring, Horsley, Smith and Co. (Hayes), Ltd.; Thermoplastic, rubber, cork and P.V.C. sheet flooring, Semtex, Ltd.; remote control gear, Arens Controls, Ltd.; ironmongery, A. G. Roberts, Ltd.; sliding folding door gear, E. Hill Aldam and Co., Ltd.; cloakroom fittings (metalwork), R. Smith (Horley), Ltd.; cloakroom fittings (woodwork), W. H. Gaze and Sons, Ltd.; main entrance doors, Fred. Sage and Co., Ltd.; metal faced ply, Venesta, Ltd.; horticultural works, Gilliam and Co., Ltd.; oil and emulsion paints, Hadfield (Merton), Ltd.; distemper, The Walpamur Co., Ltd.; Alkyd rubber varnish, Vitretex (England), Ltd.; staircase mosaic, Philip Suffolk; reinforced plaster partitions, Patentee: Highworth Processes, Limited.

1956

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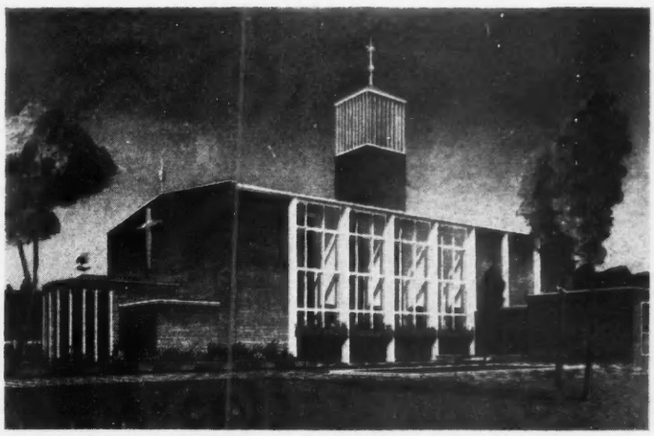
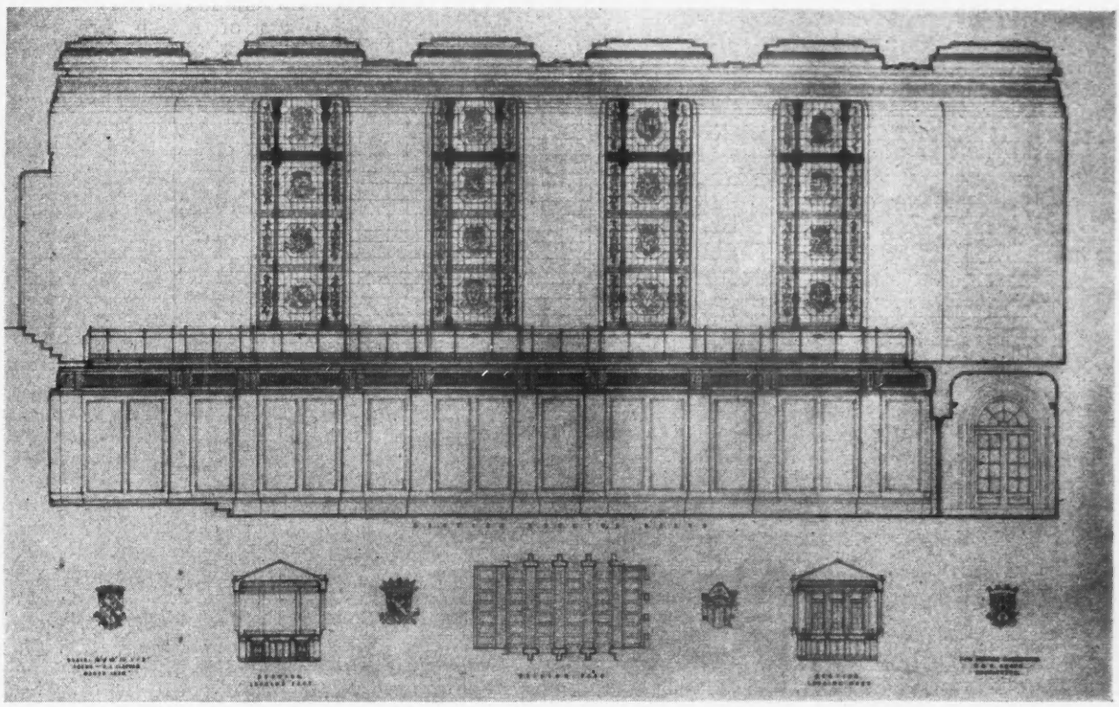
THE BU

ARCHITECTURE AT THE RA SUMMER EXHIBITION, 1956



Drawn by R. Myerscough Walker.

THE NEW CHURCH OF ST. ETHELDREDA, Fulham, in the Diocese of London. Guy Biscoe, architect



Drawn by S. J. Clapham.

PROPOSED RECONSTRUCTION of the Merchant Taylors' Hall. Sir Albert E. Richardson, PRA, architect

Drawn by Henry Rushbury.

HOUSEHOLD BRIGADE WAR MEMORIAL CLOISTER. H. S. Goodhart-Rendel, FRIBA, architect

News of the Week

The Lea Waterway

A SCHEME to improve the River Lea Navigation between Enfield Lock and its junctions with the River Thames, at a cost of £864,000, has been announced by Sir Reginald Kerr, general manager of the British Transport Commission's Waterways Division. It is the largest project yet to be announced in connection with the Commission's £5½m. development plan covering their principal inland waterways.

The scheme will reduce by half the time taken by the large Lea craft in navigating the locks above Old Ford—will open up the whole section Thames to Enfield (13½ miles) to the largest barges used by the carriers, thus enabling them to increase their traffics; and will provide fully modern standards of bank protection and dredging.

The large programme of bank protection will involve 32,000 ft. of steel piling and 3,300 ft. of mass concrete walling. To avoid delays to craft at the Tottenham and Stonebridge Locks, Tottenham, and at Pickett's Lock, Edmonton, the single locks at these points are to be doubled, each new lock being large enough to take a 135 ton, 18 ft. wide Lea barge. A similar new lock is to be built at Ponders End. The doubling of Tottenham Lock will involve the construction of a new bridge under Ferry Lane; also, Three Mills Lane Bridge, Bow, will be reconstructed.

Church Preservation Trust

THE Historic Churches Preservation Trust have announced that Lord Esher has accepted office as chairman of the newly created grants committee of the trust. The committee's function will be to consider appeals for help towards the cost of necessary repairs from churches and nonconformist chapels throughout the country.

COMING EVENT

WEDNESDAY, AUGUST 22

"MODEL ENGINEER" EXHIBITION.—New Horticultural Hall, Westminster, SW1. Daily (except Sunday) 11 a.m. to 9 p.m. Continuing until September 1.

Architecture Club Reception

A RECEPTION was held by the Architecture Club at Osterley Park on Wednesday, July 25, by permission of the Director of the Victoria and Albert Museum.

To Study in USA

THE request of MR. PHILIP LANGLEY, of Birmingham, to be allowed to take up a £1,250 fellowship to study landscape architecture at the University of Pennsylvania has been acceded to by the Ministry of Labour and National Service. When the fellowship was awarded earlier this year, Mr. Langley found that he was due to be called up for national service. He sought the aid of Mr. Roy Jenkins, MP for Stechford, Birmingham, and as a result has now learned that the Ministry will allow him to go to America for 18 months.

Mr. Langley, who is 25, spent six years at the Birmingham School of Architecture. He was one of 30 applicants for the four fellowships which are awarded and with his entry he submitted plans for a development scheme for Warwick.

Drawn by Frank Hoar.

THE STANDARD BANK of South Africa, Nairobi. Architects: Cobb, Archer and Scammell, FF.RIBA.

CPRE National Conference

THE seventeenth national conference of the Council for the Preservation of Rural England will be held at Buxton from October 4 to 6 next, when the theme will be "Building—and Breathing Space." Speakers will include Mr. P. W. Macfarlane, FRICS, MTPI, who will speak on "Green Belts, their Planning and Preservation"; Lt.-Col. G. G. Haythornthwaite, ARIBA, AMTPI, on "Regional Architecture"; and Mr. Humphrey Baker on "Common Lands." The CPRE's chairman, Sir Patrick Abercrombie, will preside. Details from the Secretary at 4, Hobart-place, SW1.

Architects v. Surveyors

THE ANNUAL golfing match between the Royal Institute of Chartered Surveyors Golfing Society and the Royal Institute of British Architects Golfing Society took place at New Zealand Golf Club, West Byfleet, on July 11.

This match was one of the most closely contested matches which either side has played this season. In the morning nine of the ten matches went to the 18th hole and at lunch-time the RICS Golfing Society led by six matches to four. The architects had hopes of retrieving the situation in the afternoon but the foursomes resulted in a win of three matches to two to the surveyors, making the surveyors the winners for the day by nine matches to six.

THE ANNUAL match between the Ministry of Works Golfing Society and the London Master Builders' Association Golfing Society, took place at St. George's Hill Golf Club, Weybridge, on July 24, under excellent weather conditions. On this occasion the builders were heavily defeated, only halving one match in the morning, the final result for the day being 8½ matches to the Ministry of Works and 2½ to the LMBA.

Professional Announcement

MESSRS. RAMSEY, MURRAY, WHITE AND WARD, FF./AA.RIBA. announce that their telephone number is now Welbeck 0681.

FROM "THE BUILDER" OF 1856

Saturday, August 16, 1856

CHURCH STRUCK BY LIGHTNING.—During a thunderstorm on Thursday week, the lightning struck the tower of Holy Trinity Church, in Stretford New-road, Hulme, Manchester. It fractured one of the pinnacles on the top of the steeple, large pieces of which fell through the roof of the tower in two places, and through the church ceiling into the church below. The whole of the pinnacle was shaken down to the roof of the tower, and several pieces of stone were hurled in to the road. The damage is being repaired by Messrs. Eastwood and Son, builders. The cost will be about 20*l*. There is no lightning conductor to the church, and this is generally the case where such accidents happen, as we have often pointed out; and even where a conductor may exist, there is usually something defective in it under such circumstances. Surely a conductor will now be put up at the church under notice.

Exposing the beauty in concrete for architectural effect by using Redalon Liquid

THE CHURCH OF ALL HALLOWS BY THE TOWER, LONDON ARCHITECTS: MESSRS. SEELEY & PAGET, FF.R.I.B.A.

The perfect key for plaster renderings

This is a close-up illustration of concrete after the cement skin has been removed to expose the aggregate; the shuttering having been treated with Redalon cement retarder.

In the reconstruction of All Hallows Church, the contractors, Messrs. Dove Brothers, used Redalon liquid to provide a permanent texture and colour to the whole of the concrete roof structure, the red-brown of the exposed aggregate contrasting with the white of the Painswick Stone columns.

Redalon liquid temporarily retards the setting of the cement skin which when lightly brushed is removed without in any way damaging the concrete, exposing the natural aggregate, either for beauty or obtaining a key for plastering.

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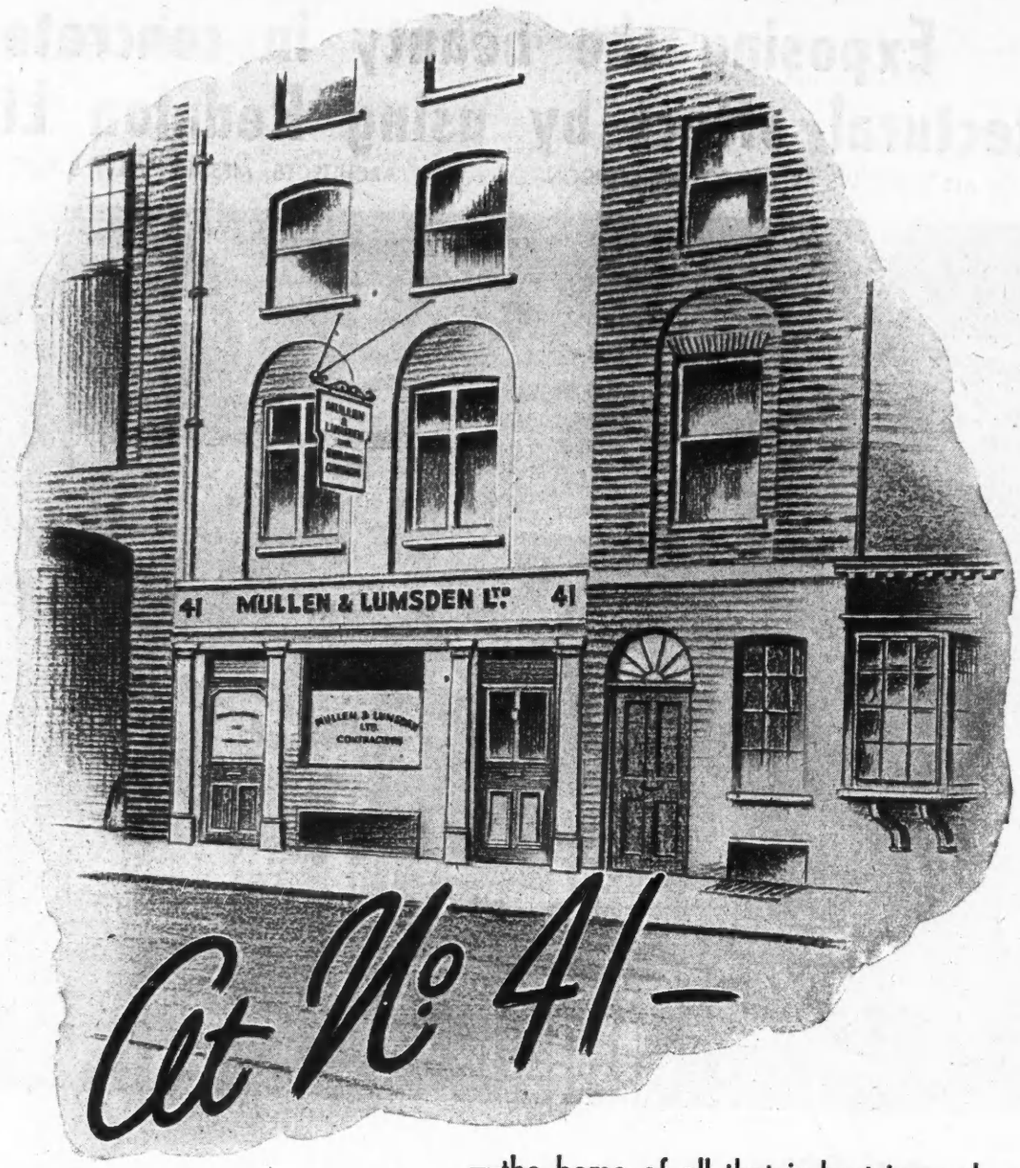

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The Duke of Edinburgh's Study Conference

LESSONS FOR THE BUILDING INDUSTRY

By W. KIRBY LAING, MA, MInstCE

The Study Conference on the Human Problems of Industrial Communities, held in Oxford recently under the chairmanship of the Duke of Edinburgh, has lessons for all industries, not least building. We have invited Mr. W. Kirby Laing (who attended as representing the building industry in the United Kingdom) to give his views on conclusions reached by the Conference, and these now follow.—Editor.

NOW that "the great experiment" of HRH The Duke of Edinburgh's Study Conference on the Human Problems of Industrial Communities within the Commonwealth and Empire is ended, people are naturally trying to assess its results. This is not easy to do because so much of the result is intangible and it is really a question of a change of heart and a broadening of outlook among those who took part. Its results will go on showing themselves in a variety of ways for many years to come.

Before trying to set down some of the more immediate and tangible findings it may be appropriate to explain briefly how the Conference—held at Oxford from July 9-27—was arranged and who were its members.

Conference Framework

280 people from every part of the Commonwealth and Empire, drawn equally from the trade union and management sides of industry, were invited to the conference and divided into 20 groups of 14 people with their appointed chairman and secretary. Each group was given three themes to consider during the period (one main theme and two subsidiaries). These themes were the subject of discussions at joint sessions of three groups during the later stages, and each group was responsible for presenting a report on its findings concerning its main theme at the final session of the conference.

During the first five days the members met in plenary session to hear a series of papers on the background of industry, indicating some of the problems that exist at the present time. At the same time there was a series of group discussions dealing with the various lectures and formulating programmes for the next part of the conference which consisted of nine days of study tours carried out by individual groups. These tours included a four-day visit to London and one of the New Towns, plus five days in one of the provincial industrial centres. The programme was a very full one of visits to a variety of industrial units, followed by discussions with local representatives, these discussions invariably carrying on well into the night.

The final week was spent at Oxford in hearing further lectures dealing particularly with the overseas point of view, together with group discussions formulating reports on the various themes—these reports being presented at a marathon session lasting 6 hours during the last day of the Conference.

The themes of the 20 groups were collected under 7 main headings and the following are some of the points which were raised in the various reports:—

Theme 1 : Satisfaction at Work

There was a great deal of discussion on this subject, and although there were some contrary views it was felt that pay is not the main satisfaction to be gained from work. Rather is this a matter of doing a worthwhile job in a well organised and disciplined firm. Opinions varied as to what can be considered a worthwhile job, and whereas some might think a particular task monotonous, others enjoy doing it and would not willingly change that task for something apparently more creative.

One of the main contributory factors of having satisfied workpeople in a particular operation is to ensure that wherever possible men and women are put into work for which they are adapted by temperament and ability. This emphasises the importance of the work of the Youth Employment Service because, as one of the African delegates told us, "if you want a tree to grow straight it must be planted straight in the first place."

In addition, a real sense of "belonging" can lead to greater satisfaction. A contributory factor here is the relationship between management (particularly at foreman level) and workpeople, with the need to realise that the latter are not just so many ciphers but human beings.

Theme 2 : Organisation and Relationships at Work

As mentioned under the previous heading, one of the causes of satisfaction at work is employment in a well organised firm, and this question of organisation is undoubtedly most important. People at all levels in the firm must know what is their place in the organisation and they should only be responsible to one person. In this connection emphasis should also be placed on the need for the institution of a proper system of communication. This can be realised in a number of ways, dependent on the type of concern.

In the family firm communication may be directly between the owners of the firm and the individual employees, whereas in the larger firm it may be convenient to institute a Joint Works Council so as to ensure that the views of the various sections of the firm are represented to the management, and *vice versa*.

On the other hand, it was emphasised that Works Councils should not detract in any way from the sphere of management as such—no one should interfere there. Whatever the system adopted it can be used for giving notice of impending changes within the firm, but it should be remembered that the institution of a communication system can be a change in itself which requires time for assimilation, and should not be brought into operation just before other major changes.

Theme 3 : Education and Training

Great emphasis was placed on the necessity for better education at all levels, from the apprentice right through to the University graduate, and in particular the need was stressed for better facilities for the education of foremen in all industries.

With the various new techniques which are being introduced, greater skill is required throughout industry and one must remember that an individual's education is never complete but is a progressive thing, going on throughout his lifetime.

It was felt that there could with advantage be closer co-operation between Universities and industry, and that industry in particular must learn to use the products of the University to better effect. With their trained minds, graduates are usually turned quickly into useful members of the organisation, particularly if the University has given its students a wide-based training including the Humanities and Social Sciences, and not limited to mere technologies.

One point which must not be lost sight of is that encouragement must be given to individuals to undertake further education by recognising their increased skill with increased pay. Too often the transfer from the ranks of a manual worker to staff involves an "Irishman's Rise" in salary.

Theme 4 : Employment and Security

At a time such as the present when there is such keen competition for labour, it behoves every firm to ensure that the conditions of employment are the best possible, compatible with its type of operation. In addition, however, with the threat of redundancy in certain quarters, there must be a willingness on the part of all workers to adapt themselves to changes which are developing. It is sometimes felt that traditional industries are the least adaptable, but examples were seen on the various Study Tours which proved that even in such traditional crafts as pottery great benefit had come to all concerned as a result of the willingness of craftsmen of all sorts to undertake a variety of tasks.

Conditions of employment which are normally the responsibility of joint negotiation between employers and trade unions were not included in the deliberations of the Conference, but such items as pension schemes and sick pay were discussed and it was felt that an additional feeling of security resulting from schemes of this sort warranted their wider use in industry.

Themes 5 and 6 : Housing and Travelling, and Industry and the Community

These two subjects are largely dependent one upon the other, because the relationship between a person's home and his work depends to a considerable extent, at any rate in the smaller towns, upon the

relationship between industry and the community.

It was felt that there should be a closer co-operation between industry and the community in the form of a local authority in the initial setting up of industrial areas, and also in trying to ensure that adequate housing is available within a reasonable distance of the industrial area. It was also felt that in the majority of cases a more satisfied community results from individuals who own their own houses, while provision of industry-owned houses leads to dissatisfaction and a reduced sense of security at home. Industry has an important responsibility to the community in dealing with such items as smoke abatement, river pollution, disposal of waste, etc.

Theme 7 : Social Values and Ideals

There was a feeling that in Britain, at any rate, our social values have been affected adversely by the introduction of the so-called Welfare State, and in addition there has been a lowering of the moral standards of the nation as a whole as a result of the lessening of family loyalties. Previously, the family grew up with the individuals depending one upon the other, but under present day conditions this is not the case, and members of a family often live with little knowledge of the thoughts and plans of other members of the group.

This lessening of family loyalties cannot be replaced by welfare facilities. As one individual put it: "people are only real people when they are in personal and responsible relationship with one another." Our efforts at social improvement will be of little effect unless they have a real background of Christian faith. As Sir Philip Morris put it in summing up, "Man cannot live unless by the aid of facts he takes himself as far towards the precipice which divides him from the Unknown as facts will carry him, and when he has got there and wants to proceed farther he must take faith as his guide. And, of course, 'faith' in the modern world is again a depreciated word. But if you hear them fresh and anew and on a quiet moment like this, at the end of a conference, it is possible to hear the overtones of exceedingly well known words: 'Faith is the substance of things hoped for and the evidence of things not seen.' If you want to deal with the things that you can neither see nor touch, you can do so only by faith."

Lessons from the Conference

It may be asked what effect can the deliberations of some 300 people representing the whole of the Commonwealth and Empire have on a particular industry? I feel that the greatest effect of this Conference has been the feeling of unity which has existed throughout its deliberations. People were gathered from five continents and were able to speak to each other with a common language about common problems. This has resulted in a realisation that, providing all its members act in unity, the Commonwealth can still be a thing of tremendous power and usefulness throughout the world. In addition, we have learned that both sides of industry can and must work together for a common purpose, because one must live to work and work to live.

As to lessons of immediate use in the construction industry, I would submit that at the present time there is a need of a greater realisation that an individual operative is not just a number in a time-book, but that he is a real person with real problems to be faced, and that he is a person who, if given the opportunity, can and will work happily.

I feel, too, that our industry has a great deal to learn regarding improved communication of ideas and intentions. This applies right through the industry, from the building owner, through the architect and the quantity surveyor, down to the management of the contracting firms, and so to the individual operatives in those firms. So often the operative cannot give of his best because his foreman has not given him proper instructions, and in many cases the foreman cannot give these instructions because he has not had the necessary information from the designer.

Finally, a start has been made in the education of all grades in our industry, but the institution of a few Foremanship Courses and the setting up of a Board of Building Education is not sufficient. We need to see real results from the various organisations dealing with education in the industry before any benefits can be felt in individual firms, and unless we are very careful these results will be produced too late.

HOUSING PROGRESS REPORT

Figures for the First Half of 1956

THE Housing Progress Reports presented to Parliament as White Papers* by the Minister of Housing and Local Government and the Secretary of State for Scotland show that the number of permanent houses completed in Great Britain during June was 27,672 compared with 27,187 in June, 1955. In the first six months of 1956, 144,212 permanent houses were completed compared with 155,850 in the same period of 1955. Detailed figures at the end of June were:

PERMANENT HOUSES AND FLATS COMPLETED

	Great Britain			England and Wales		
	Post-war total to June 30, 1956	*Completions in June*	*Completions in 1956 to June 30*	*Post-war total to June 30 1956*	*Completions in June*	*Completions in 1956 to June 30*
By Public Authorities						
Local authorities†	1,746,728	15,581	80,952	1,501,213	12,822	68,711
Housing associations ...	38,466	255	1,295	37,314	197	1,227
Government departments ...	58,299	811	3,657	53,157	690	3,469
Total	1,843,493	16,647	85,904	1,591,684	13,709	73,407
By Private Builders ...	540,369	11,025	58,308	520,554	9,910	55,823
Total	2,383,862	27,672	144,212	2,112,238	23,619	129,230

PERMANENT HOUSES AND FLATS UNDER CONSTRUCTION

	Great Britain			England and Wales		
	Under construction at June 30 1956	*Under construction at March 31 1956*	*Under construction at Dec. 31 1955*	*Under construction at June 30 1956*	*Under construction at March 31 1956*	*Under construction at Dec. 31 1955*
By Public Authorities:						
Local authorities†	181,982	179,422	186,618	148,217	145,884	151,728
Housing associations ...	2,416	2,496	2,655	2,300	2,342	2,576
Government departments ...	7,762	7,777	7,811	7,198	7,147	7,141
Total	192,160	189,695	197,084	157,715	155,373	161,445
By Private Builders ...	95,061	89,884	89,818	91,643	86,302	86,435
Total	287,221	279,579	286,902	249,358	241,675	247,880

CLEARANCE OF UNFIT AND OTHER HOUSES: ENGLAND AND WALES (PROVISIONAL)

	Second quarter 1956	*First quarter 1956*	1955	*Total since April 1 1945*
Number of Houses:				
In clearance areas submitted	11,641	9,407	20,660	—
In clearance orders confirmed	1,802	870	2,363	11,212
In compulsory purchase orders confirmed	6,273	2,887	6,894	25,921
Demolished or closed	‡	8,053	25,229	130,090
Number of Persons:				
In clearance areas submitted	34,216	30,145	66,137	—
In clearance orders confirmed	4,693	2,464	6,946	28,976
In compulsory purchase orders confirmed...	21,210	9,427	21,381	83,868
Moved from houses demolished or closed	‡	20,892	75,918	405,547

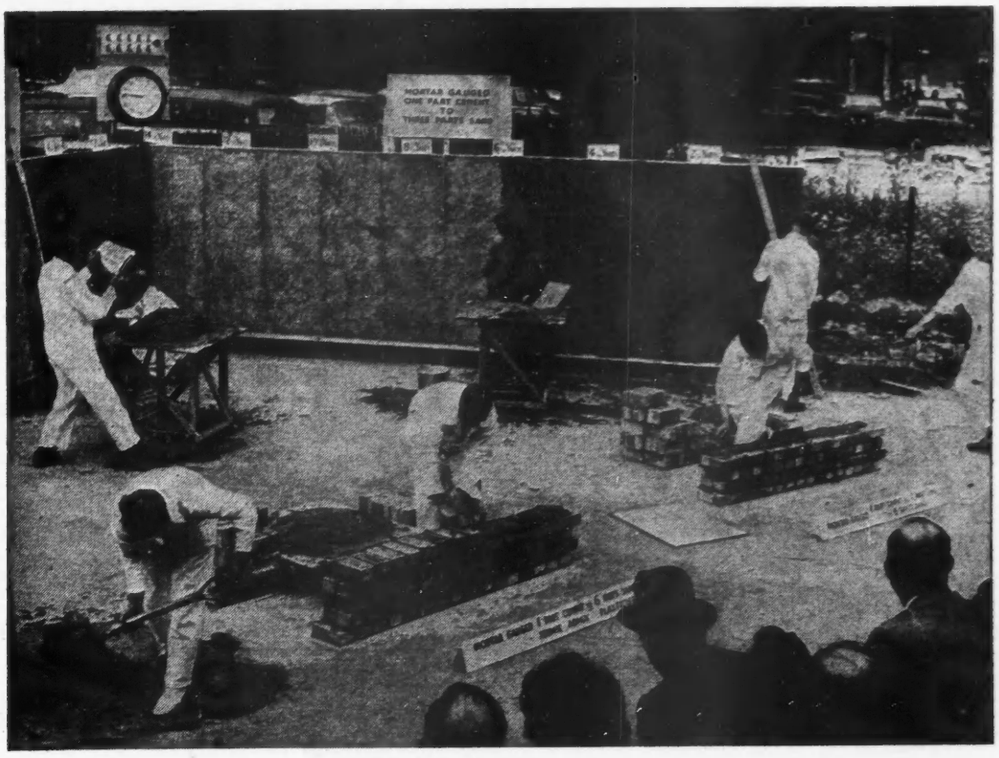
*Cmd. 9817 Housing Return for England and Wales, June 30, 1956. HMSO, price 6d.

*Cmd. 9818 Housing Return for Scotland, June 30, 1956. HMSO, price 1s.

† In Scotland includes houses built or being built by Scottish Special Housing Association.

‡ Not yet available.

IS THIS A RECORD?



On June 27th a productivity competition was held in public to check whether the use of a Plasticised Mortar would help Bricklayers and Plasterers to increase output.

The Plasterers were given 10 minutes to apply and rule off as many square yards of ½" thick rendering as possible, one Plasterer using a 1-3 mortar and the other a 1-6 mix plasticised with FEBMIX ADMIX.

A 10-minute period was also allowed for the Bricklayers to lay as many bricks as possible, one Bricklayer using a 1-1-6 mortar and the other a 1-6 mix plasticised with FEBMIX ADMIX.

HERE ARE THE RESULTS—

Bricklayer using 1-6 mortar plus FEBMIX ADMIX = 109 bricks laid in 10 mins.
Bricklayer using 1-1-6 mortar ... ... = 89 „ „ „ „ „
Plasterer using 1-6 mortar plus FEBMIX ADMIX=9 sq. yds. applied and ruled off.
2 „ „ applied and not ruled.
Plasterer using 1-3 mortar ... ... =6 sq. yds. applied and ruled off.
2 „ „ applied and not ruled.

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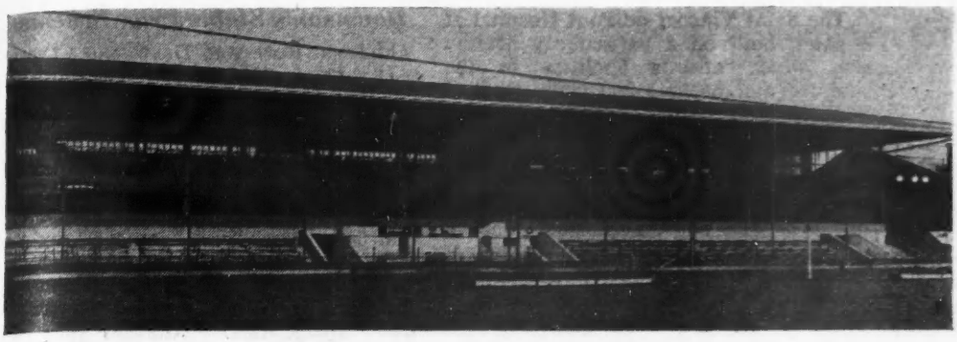


A new stand for the Gracing Club, WIMBLEDON GREYHOUND STADIUM

***Architects:* GUY MORGAN & Partners**

Quantity Surveyors : ORD & BARNSLEY ***Builders : W. J. CEARNS & Co., Ltd.***

THE new stand for Wimbledon's Gracing Club is the largest in London's Greyhound Racing and one of the most luxurious sporting stands in Europe. It provides accommodation for a total capacity of 2,000 people; half of this number being housed in a totally enclosed area fronted with plate glass, giving an uninterrupted view of the track, totalisator, and the results indicator board.

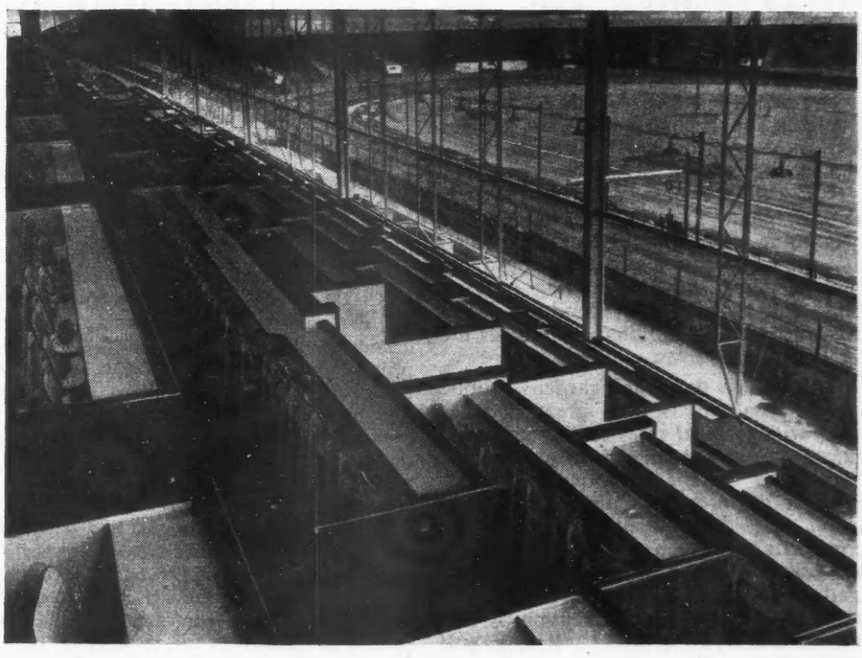
In the enclosed part of the stand there is total seating accommodation for 600 people, arranged in terraced pews. These contain six or more loose chairs, at the front of which are ledge tables so that patrons may rest their racing cards, drinks and snacks in comfort. There is provision for 200 to dine in the Club Members' Enclosure as they watch the races. The front, sides and tops of all the pews are fabricated in Walnut. Dove grey Softglow Formica laminated plastic was chosen to veneer the tables in the pews. The chairs have been upholstered in a plastic material of pale grey bearing a broken check pattern; the carpeting is in red. The floor in the non-members' section is covered with red linoleum.

From the top of the stand, a further 400 people may watch the racing on a 21 ft. wide promenade. This stretches impressively along the entire length of the stand—almost 300 ft.—and is floored with Missanda wood blocks.

There are 72 pieces of glass, each the size of a normal shop window, supported in framework consisting of composite mullions between five stanchions on which the roof rests. Further light is admitted by two glazed sides of the stand. A plenum system takes in air from ground floor level and feeds it into the stand through vents in the ceiling.

Apart from the waitress service, cold buffet, snacks and drinks can be served to a further 800 people from two bars on the terrace. The largest of these bars is in the members' section. The counter front is in Macassar wood and the counter top and under shelving have been veneered with dove grey Softglow Formica laminated plastic. The back shelving and the wall panelling is Pompadour blue Coarse Linette Formica, and mirrors framed by Beech and Gurjun panels are set into the Pompadour blue wall surface. There is, in the non-members' section of the terrace, a 30 ft. long bar.

Bar in the members' section.



Terraced accommodation.

BUILDING ON THE SUEZ CANAL

From a Correspondent

WHEN the Suez Canal Company was formed in 1870, the headquarters staff at the administrative offices in Paris were particularly concerned with the housing of their employees. These number today some 20,000 people. Of these 775 are senior staff and pilots, who are given special homes for themselves and their families, and there are also 4,167 workmen and foremen. Of the 4,000 families almost three quarters are Egyptian and derive their livelihood from the Canal.

According to official sources, from the inception of the work the Canal Company undertook the building of housing estates for its personnel, and over 1,400 dwellings have since gone up, one third for housing employees and two thirds for workmen. Designed to meet the special climatic conditions and modern conceptions of comfort, these houses are let at reduced rents. They have, so to speak, formed the nucleus around which fresh settlements have sprung up.

Modern Urban Requirements

The towns thus brought into being have been planned and perfected in accordance with modern urban requirements. The Company has carried out the necessary sanitary and hygiene works, has put in the sewers and drains and has organised household waste disposal. In Ismalia and Port Taufiq it has seen to the upkeep of roads and pavements and to the maintenance of public parks, squares and cemeteries. The systematic fight against mosquitoes is constantly being pursued by draining and spraying stagnant water, to such good effect that malaria, which was rampant in the earlier years of the Canal's existence, has practically disappeared today. Fire brigades have been created in Ismalia and Port Taufiq, and rat extermination services have been set up in the ports.

The electric power required by the Company, particularly for its general workshops, for the water filtration plants and for the lighting of Port Said harbour, is produced by two power stations located at Port Fuad and at Port Said. The magnitude and efficiency of these is such that the Company is also able to provide enough power for the lighting of Port Fuad and to supply Port Said municipal authorities with additional current for the lighting of that town.

Everywhere there are gardens, public parks, even woods, and great avenues lined with tropical trees casting an air of gaiety that contrasts pleasantly with the barrenness of the surrounding desert. Social and sports clubs, playing fields and links, and very popular beaches (the creation and upkeep of which are largely subsidised by the Company) provide the staff with particularly pleasant and inexpensive facilities for recreation as well as with all forms of sport. Riding, golf or yachting can usually be indulged in not only by the privileged few.

The Saint Vincent de Paul Hospital at Ismalia, built on a particularly healthy site, which affords coolness in the summer months, has 200 beds, medical and surgical wings, clinics for all branches of specialised therapy, a laboratory, and radiology installations. The hospital buildings and equipment are periodically overhauled to keep pace with the ever-increasing complements and to march in step with the rapid development of up-to-date medical technique. A new surgical wing permits the treatment of patients in accordance with the most modern operational technology.

One of the problems confronting the Isthmus staff is that of the education of their children. Consequently the Canal Company has helped to a very considerable extent in building numerous schools providing elementary and secondary education.

PRICE STABILISATION

Ballast and Sand Association's Statement

MR. H. E. PEIRCE, OBE, JP, chairman of the Ballast, Sand and Allied Trades Association, made the following announcement on August 8:

It is gratifying to learn that the Government, the nationalised industries, and other industries, have at last followed the lead given by ourselves and many others at the beginning of this year regarding a standstill undertaking of their individual prices.

Sand and gravel producers throughout the country have been considering whether they can renew their undertaking. I am glad to be able to say that of the very large number of firms engaged in the production of sand and gravel, the majority have undertaken until March 31, 1957, not to increase their present prices unless something quite unexpected and exceptional happens.

It is hoped that other industries, and particularly the trade unions, will co-operate, since continued inflation and rises in the cost of living are matters of extreme anxiety to us all.

Plumbing Contracts

AFTER discussion with the NFBTE, the council of the National Federation of Plumbers and Domestic Engineers (Employers) have decided to recommend to their members that they should be prepared to accept a fixed-price for materials when invited to tender for the plumbing work in the case of an ordinary building job of up to £5,000 in total value, where ten per cent. of that represents a normal plumbing element and does not include an excessive proportion of non-ferrous metals, and where the work can be completed within six months from the date of tender.

In making the proposal it was felt that any such advice to subscribers must take account of other considerations, namely:—(i) that the building contractor should state clearly in his invitation that the particular job was on a fixed-price basis in respect of the materials; (ii) that the building contractor should accept tenders promptly; (iii) that the building contractor should give some assurance that the total value of the work would not be increased beyond a reasonable margin during the job.

Rownson's Stable Price Scheme

MESSRS. ROWNSON, DREW AND CLYDESDALE, LTD., 225, Upper Thames-street, London, EC4, who on March 1 undertook not only to stabilise their prices for six months but also to give customers the benefits of any reductions in price, have decided to extend their stable price scheme for a further six months from September 1. The firm have been "very gratified" by the enthusiasm for this scheme shown by builders, plumbers and specifying authorities and by the practical way they have expressed their appreciation. Attempts to take "speculative advantage" of the scheme have been practically non-existent.

In a circular to clients the firm state: "So far as orders outstanding on our books at August 31 are concerned, the following procedure will be adopted.

1. All orders on our books at 8 a.m. on September 1 which have not been qualified by the customer as to the date of delivery will be supplied and invoiced as if they had been delivered by August 31. By this we mean that rises that have taken place since the placing of the order will not be charged.

2. All customers with orders on our books who have instructed delivery to take place after August 31 or who have not yet given delivery instructions will be invited to take delivery before August 31 to avoid any rise in price which might be necessary under the new scheme. So long as these instructions are given to us by first post on Monday, August 27, the prices charged will be those that we would have charged at August 31 even though, through our own fault, we have been unable to effect delivery by that date.

3. Should our customer not wish to bring forward the date of delivery of contract orders but prefers to take these goods after September 1 the rises in cost which have occurred since the placing of his order (less, of course, any reduction in prices) will be charged on these goods but such prices will be subject to all the conditions and terms on our second stable price scheme."

In general terms, the circular continues, all ferrous goods have increased in price since the stable price scheme was introduced on March 1, but these increases in price have not been passed on to customers; on the other hand most non-ferrous goods have dropped in price and customers have been given the benefits of these "drops."

In a number of cases, such as, for instance, bath suites, the baths have risen in price and the fittings dropped in price; this means that when at September 1 these prices are recosted the rise in the cost of baths will be lessened by the reduction in brassfoundry.

PERSONAL COLUMN

At a meeting of the board of directors of Keith Blackman, Ltd., manufacturers of "Tornado" fan engineering equipment and industrial gas apparatus, the following executives were appointed to serve as directors from August 1, 1956: MR. C. J. ATKINS, sales director; MR. F. W. GOODGE, contracts director; MR. S. HUDSON, director and London works manager. MR. A. H. WOODLEY was appointed sales manager.

J. A. Hewetson & Co., Ltd., flooring specialists, Marfleet, Hull, announce that MR. ANTHONY CLARK, cost accountant, has been appointed a director of the company.

The directors of the Tomo group of companies announce that they have appointed MR. HAROLD W. JOYNES as public relations officer for the four companies in the group. These companies are: Tomo Trading Co., Ltd.; Linden Doors, Ltd.; Stramit Boards, Ltd.; T. F. Sampson, Ltd Mr. Joynes will be operating from the companies offices at Packet Boat Dock, Cowley Peachey, Nr. Uxbridge.

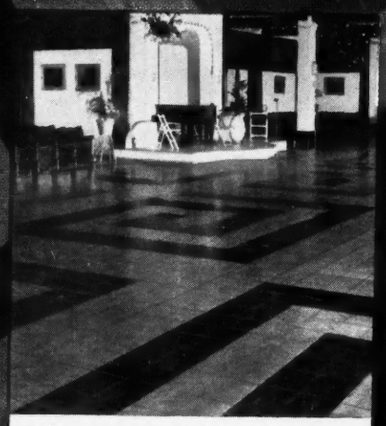
Trinascolin Floor, Cafeteria, N.A.A.F.I. Services Club, Salisbury. Architects, Messrs. Josephs.

DECORATIVE FLOORINGS

TRINASCOLIN · COLOURPHALT · SEMASTIC · CORK TILES

THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD.

Trinidad Lake House, 232-242 Vauxhall Bridge Road, London, S.W.1.



Ballroom at Butlin's Holiday Camp
Pwllheli, Caernarvon
Designed by W E. Butlin

Show *floorthought* with MARLEY tiles

DSIR

Staff Cuts Proposed Again

CUTS in the Civil Service which may hamper rather than improve the country's economic recovery are being opposed by the Institution of Professional Civil Servants.

The Ministry of Labour's small staff for dealing with training in industry is to be slashed by nearly half. At the same time the Department of Scientific and Industrial Research will have to abandon a recently restored development plan because a cut of £150,000 in its expenditure is imposed.

These facts are among the first details of the Government's decision to cut Civil Service expenditure by £100 million this year.

Mr. Stanley Mayne, General Secretary, writing in the August issue of *State Service*, journal of the Institution, says: "With the very heavy dismissals now being made in the motor car industry and dismissals being threatened elsewhere, it would seem that there is more need than ever for the development of the Ministry of Labour's training within industry arrangements. Yet, of this small staff of about 38 no fewer than 16 are to be dismissed.

Wasteful Economies

"Cutting work which is important for the continued development of the country is no economy at all. An example of this lack of economy in economy cuts comes from the Department of Scientific and Industrial Research. This department suffers from aborted development plans. Immediately after the war it was given a development programme because of the importance of its work to the general economic welfare of the country. Within a few years this plan was abandoned and not only so, but the Department had economy cuts applied to it so that it went backwards.

"As a result of general pressure the Government again decided to have a plan. The new five-year plan is designed to achieve by 1960 almost as much as it had been proposed to develop in the first five-year plan of 1946. Now the DSIR is to be cut again. It is true that this cut is only £150,000, but it means concomitant stoppage of the development programme proposed."

COURSES AT SHEFFIELD

Prospectus of the Department of Building

THE Department of Building of Sheffield College of Commerce and Technology has issued its prospectus of the courses available during the next session. Among the full-time courses offered is the advanced building technology course leading to the award of the Higher National Diploma in Building; a full-time sandwich course in building technology; and a full-time sandwich course in civil engineering.

Ordinary and higher national certificates in building are catered for with part-time day courses or study in the evening. The Department also has a scheme whereby students can study for the Licentiate Diploma of the Institute of Builders. Evening courses are held for the examinations of the Institute of Clerks of Works of Great Britain. The external associate membership examinations of the Institution of Civil Engineers are catered for with part-time evening study, as are also the external examinations of the Institution of Structural Engineers. The City and Guilds of London Institute Certificates in concrete practice and structural engineering can be studied. Courses are also available for the studying of surveying with facilities to take RICS examinations.

Besides these courses leading to professional examinations there are many courses for craft study. The prospectus can be obtained from the Department of Building, Salmon Pastures, Warren-street, Sheffield, 4.

ALL-ELECTRIC COUNCIL HOUSES

Birmingham Corporation's Experiment

ALREADY experimenting with all-electric flats, Birmingham Corporation is shortly to begin building 42 experimental all-electric houses at Kitwell Farm Estate, Bartley Green.

The houses will be electrically heated throughout. The Corporation hopes to acquire not only information about the working of all-electric houses but to learn more of the relative values of various kinds of insulation. Insulating materials to be used include bitumen-bonded glass quilt, glass-wool mats, insulating plasterboard backed with aluminium foil and a variety of types of double glazing in the living-rooms.

It is expected that the houses will not cost more than the ordinary type of municipal houses, owing to the elimination of chimneys, fireplaces and coal houses.

DIRECT LABOUR FORCE TO GO

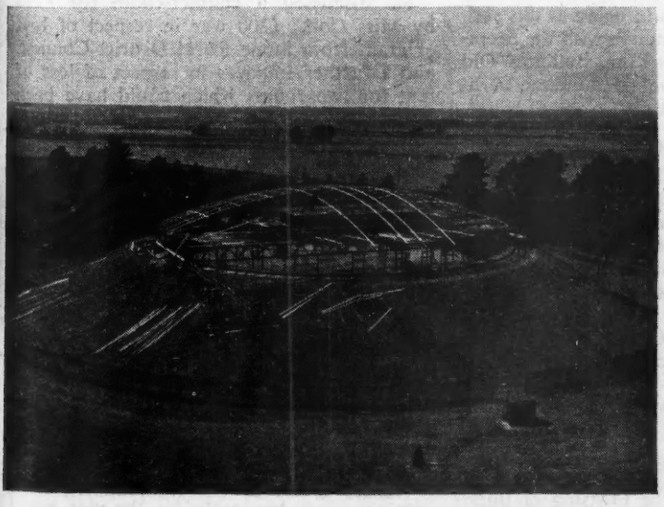
Rochester Council's Decision

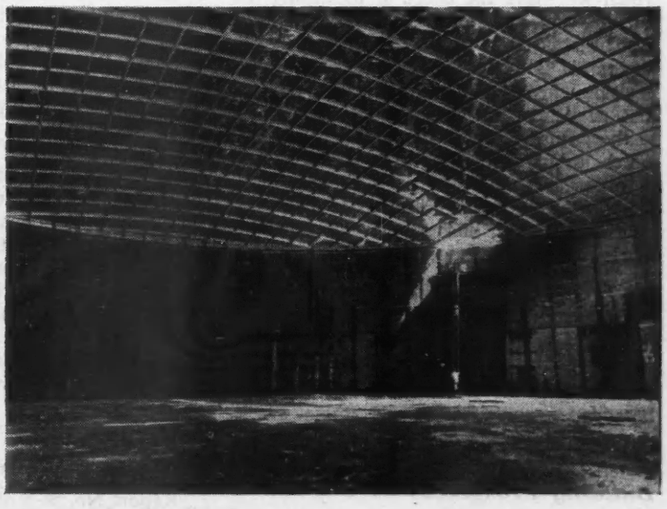
ROCHESTER COUNCIL has decided to dispense with its house-building direct labour force of nearly 30 men, some of them superannuated, in an endeavour to economise house-building costs.

As a result, an £87,000 contract for the erection of 60 dwellings at the Darnley-road (North) Estate, Strood, will go to private enterprise, Peak Construction Co., Ltd., subject to Ministerial approval.

It was originally recommended that 18 of the 56 three-bedroom houses and the four old people's bungalows included in the contract should be built by the direct labour force at a cost of just over £31,000.

At a recent meeting of the council a lengthy and heated debate preceded the decision, bitterly opposed by members of the Labour Party group of the council.





ALUMINIUM DOMES: Two service roofs for Biggleswade Water Board, 125 ft. in diameter, contain 16 tons of unpainted aluminium alloy sections and sheet. The structure was erected by means of a movable stage which can be seen in the left-hand picture, on the outside of the reservoir. Built by Aluminium Construction, Ltd., Messrs. Binnie, Deacon and Gourley, consulting engineers. Structural sections are Noral 51SWP, and the sheets are Noral M57S¾H, from Northern Aluminium Co., Ltd., of Banbury, Oxon.

OFFICIAL NOTIFICATIONS

Registrar of Restrictive Trading Agreements

THE Office of the Registrar of Restrictive Trading Agreements is at Chancery House, Chancery-lane, London, WC2 (telephone Chancery 2858), and was opened on August 7. (The Registrar's office is not part of the Board of Trade.)

Details of the way in which registration is to be carried out will be given in regulations to be made by the Registrar, and these will be issued before the Registration Order comes into operation on November 30. The regulations will also lay down the fees to be paid for inspecting the Register and for copies of, or extracts from, registered documents.

The Queen has been pleased to approve that Mr. Rupert Leigh Sich, CB, be appointed Registrar of Restrictive Trading Agreements.

Trade with Egypt

IN VIEW of inquiries about the effect of the current financial restrictions on United Kingdom trade with Egypt, the Board of Trade have issued the following circular to firms and trade associations who are subscribers to the Board's Special Register Information Service:—

"Traders are advised that payment is not being made out of blocked Egyptian sterling accounts for goods exported to Egypt other than for goods delivered or shipped on or before July 27 and for goods in respect of which confirmed bankers' credits had been established on or before that date. There is no prohibition of exports to Egypt other than of arms and warlike material, though export licences continue to be required for certain kinds of goods."

NATIONAL JOINT COUNCIL DECISIONS

More Money for Scaffolders

THE National Joint Council for the Building Industry has approved an amendment to National Working Rule 1(h)(2) which will have the effect of increasing the rates of wages currently payable to qualified tubular scaffolders by 1d. per hour as from September 3 next. In connection with this decision the council have further decided that particular attention should be directed to the nature of the training and experience which tubular scaffolders must have had in order to qualify for payment under this section of National Working Rule 1(h). The new rate is 2d, instead of 3d. an hour "below current standard craftsman's rate."

Operatives Using Rivet Guns

The NJC has also decided that a man using a cartridge-operated rivet gun should receive an extra 2d. an hour, as from September 3 next. Such men will therefore be added to the schedule in National Working Rule 3 (Extra Payments).

Building Prospectus

The Prospectus 1956-57, for the Building Department of Blackpool Technical College and School of Art, Palatine-road, Blackpool, has been issued. Subjects include architecture, building and quantity surveying.

NEWS IN BRIEF

Building Employment

THE numbers engaged at the end of June in building and contracting were 1,515,000, an increase over the May figure of 5,000. The numbers working in June, 1955, were 1,486,000.

New BIM Chairman

The council of the British Institute of Management announces the election as its new chairman of Mr. H. Wilmot, CBE, chairman and managing director of Beyer, Peacock and Co., Ltd. Mr. Wilmot succeeds Mr. H. F. Spencer who retires after the customary period of two years. In recognition of his services, Mr. Spencer has been elected a life vice-president of the Institute.

Pensions for Self-Employed

The Northern Assurance Co., Ltd., 1, Moorgate, London, EC2, devote their latest Pensions Bulletin (No. 3) to a full description of the provisions of the 1956 Finance Act "in reasonably non-technical language" as it affects pensions for self-employed persons or controlling directors.

Steel Production

Steel production in July was at the rate of 326,400 tons a week compared with 307,700 tons a week in the corresponding period of 1955. Steel production continued to be adversely affected by a ban on overtime by maintenance workers which has now been withdrawn. Production of ferro-concrete bars and rods for the second quarter of 1956 at 101,100 tons was 10,800 tons up on the comparable 1955 figure.

Brixton Old Boys' Association

Efforts are being made to re-establish the Old Boys' Association of the Brixton School of Building on a secure footing. To this end a temporary council has been formed to overhaul the existing rules and to carry out preliminary work prior to the annual meeting, which will take place early next year.

A "get together" supper, however, has been arranged at the Albert Tavern, Victoria-street, SW1, on October 19, and all old boys of the school who are interested in joining the association and also in being at this supper, are asked to get in touch with the Secretary—L. Wilder, School of Building Old Boys' Association, School of Building, Ferndale-road, Brixton, SW4.

Council House Repairs

Gainsborough Rural Council decided on August 7 to exercise a stricter control on expenditure on repairs to council houses. Housing management officers are being asked to scrutinise the repairs in order that they may limit the council's liability to the cost reasonably attributable to fair wear and tear of the property. It is considered that the council are sometimes called upon to remedy defects which are the result of neglect or carelessness or even wilful damage by the tenants.

Concrete Factory Floors

Report No. R-7 of the Division of Building Research, Commonwealth Scientific and Industrial Research Organisation, Melbourne, Australia, is devoted to an article by W. H. Taylor on "Durable Concrete Floors for Factories."

BUILDER'S SUCCESSFUL CLAIM FOR PAYMENT

Question of Improvement Grant

A LOCAL building contractor and chairman of the Stone Rural District Council, Mr. Joseph Henry Haynes, of Elford, Eccleshall, was the plaintiff in a case heard at Stafford County Court on July 30.

He was claiming £387 15s. 2d. from Miss Margaret M. Cork, of Offley Brook, near Eccleshall, for work carried out to her cottage.

MR. W. A. L. ALLARDYCE, for the plaintiff, said that Miss Cork had asked Mr. Haynes to carry out work to her cottage. This included the laying of new drains and septic tank, provision of a water supply, and the conversion of a bedroom into a bathroom. General repairs to fireplaces and roof were also included.

The question of obtaining an improvement grant was discussed and because he was a member of the Rural District Council, Mr. Haynes was able to advise Miss Cork how to go about it. He warned her that the work could not begin before the grant was approved.

Counsel alleged that Miss Cork was in a hurry to get into the house and ordered the work to proceed. When she discovered that she was not to get a grant, she ordered the work to be stopped and asked for a bill. It was not paid, said Mr. Allardyce.

MISS CORK denied that she was in a hurry to get into the house. She said that Mr. Haynes had promised to help her to get the grant for the improvement but he had not kept his promise.

She was counter-claiming for loss of the grant, and the rent she could have obtained from two rooms, if the work had been completed. She thought £300 a reasonable figure for the work carried out.

JUDGE H. A. TUCKER gave judgment for the plaintiff with costs. But he reduced the bill to £340, commenting: "I think it should be reduced as £387 is not a reasonable sum, having regard to the whole of the circumstances."

He dismissed a counter-claim for £250 by Miss Cork: £200 was in respect of loss of grant from Stone Rural District Council, and a further £50 was in respect of loss of rent for two rooms which could have been let.

BOOKS RECEIVED

TOMORROW'S LANDSCAPE. By Sylvia Crowe. (London: Architectural Press.) Price 21s.

MITCHELL'S BUILDING CONSTRUCTION AND DRAWING (ELEMENTARY COURSE). 22nd Edition. Revised by Francis Kerr, E. W. Talbot and Denzil Nield. (London: B. T. Batsford, Ltd.) Price 18s.

SHOPS AND STORES TO-DAY. By Ellis E. Somake and Rolf Hellberg. (London: B. T. Batsford, Ltd.) Price 63s.

COMPANY NEWS

William Evans & Co. (Manchester), Ltd., announce a trading profit for the year ended April 30, 1956, of £66,863 (£149,622 in 1955). The net profit available for distribution is £18,538, and a final dividend of 5 per cent., making 7½ per cent. for the year (10 per cent., 1955), is proposed. £36,962 (£36,537 in 1955) is carried forward.

Bulletin No. 16.

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SOFTWOOD FLOORINGS

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Do you realise what is required to give efficient carcassing service?— huge stocks, spacious yards and a first-class organisation. We offer all these to you in full measure.

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Nothing but a Villiers engine will do

Choosing any powered machine or vehicle needs careful thought . . . take a tip from those who know and choose the one with the Villiers Engine. It will give you years and years of trouble-free service . . . that's why leading manufacturers prefer a Villiers power unit, it puts the seal of perfection on a fine product.

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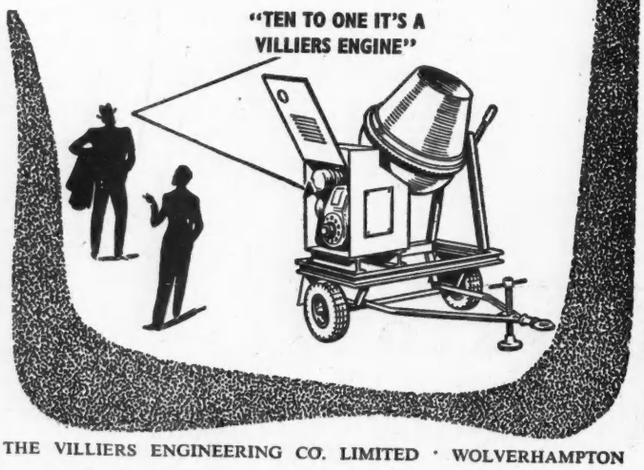
The power and the heart of a fine machine

Villiers Engines are fitted by the leading manufacturers of: BARROWS • CULTIVATORS
LAWN MOWERS • MOTOR CYCLES • MOTOR SCYTHES
CONCRETE MIXERS • CROP SPRAYERS • HEDGE CUTTERS
LIGHTING PLANTS • PUMPS • SAWS • TRUCKS

"TEN TO ONE IT'S A VILLIERS ENGINE"



THE VILLIERS ENGINEERING CO. LIMITED · WOLVERHAMPTON

The most versatile cramp in the world!

It CRAMPS, PUSHES & LIFTS exerting a force of ONE TON

THE SKYHI *Hydraulic*

Limpet CRAMP

The LIMPET Cramp is a SKYHI hydraulic cylinder and ram unit fitted with two spring loaded serrated snail-clamps. It fits upon timber from 1½ in. to 4 in. wide.
Primarily designed for cramping floorboards before nailing, it does this job more quickly and easily than any other cramp in the world. Other uses are for lifting roof beams, floors, etc. By attachment to different lengths of timber it becomes a jack of continuously variable lifting height. It finds many jobs on the bench, is ideal for inching heavy machines, etc., and also serves as a normal vertical jack.

Instant Fixing and Release

The cramp is self-adjusting, locking limpet tight on joists or similar timber. To-and-fro movements of the handle move the ram forward with a pressure of one ton. An anti-clockwise twist to the handle releases the cramp, when it may be simply slid off.

MOST COMPACT—overall length 8¾" (closed). Hydraulic extension 4".

EASILY PORTABLE—weighs only 12¾ lbs.

Please write for illustrated folder giving full details and specification

CRAMPING FLOOR BOARDS
Showing the Limpet Cramp in use. Just a few to-and-fro movements of the handle and the floor boards are TIGHT ready for nailing.

SKYHI LIMITED SKYHI WORKS, WORTON RD., ISLEWORTH, MIDDX.

The Builder Review of PLANT & MATERIALS

Diesel Dumper

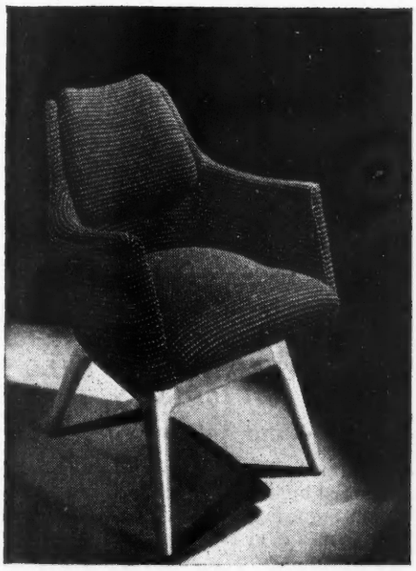
CLAIMED to be the lowest-priced dumper in its class, the "Nimbus," by Thwaites Agricultural Engineering Co., Ltd., Industrial Division, Welsh Road Works, Cubbington, Leamington Spa, is powered by a Petter 5-6 hp diesel engine. Weight 14½ cwt., loading height 36 in., turning radius 7 ft. 9 in., capacity 15 cwt. or 16 cu. ft. water level.

Steel Paint

Goodlass Steel Paint, used in conjunction with Stop-Rust Primer/Undercoating, by Goodlass, Wall and Co., Ltd., 179-185, Great Portland-street, London, W1, is claimed to give the maximum protection to all iron and steel structures, particularly if subjected to highly industrialised or similar corrosive atmospheric conditions. Colour—warm grey.

Laminated Chipboard

In order to obtain a high degree of dimensional stability a chipboard constructed of three laminations of the same material is manufactured by Novobord, Ltd., Bush House, Aldwych, WC2. Made in various thicknesses, from ⅜ in. to 1¼ in., the density is about 27 to 30 lb. per cu. ft. A recent addition to the range is "Novotan," which is Novobord with a special filmed surface developed for use when high gloss or particularly smooth painted surfaces are required. It dispenses with the necessity for filling and priming.



Office chair and desk, similar to those provided for the Chairman of the Dock Labour Board (see pages 269), supplied by Heal's, Ltd, and designed by Henry Long, MSIA. The desk is in Yugoslavian beech with pear veneer. The shaped top is partially lined with hide. It is 6 ft wide and 2 ft 8 in deep. The chair, which swivels without vertical movement, has a beech frame and wool upholstery. Both items of furniture can be supplied in a variety of finishes and materials.

Timber Protective

Experiments by Floor Treatments, Ltd., High Wycombe, Bucks., on "Bourne Seal," have suggested its suitability as a protection against sun and rain for wood out of doors. The seal prevents the greying colour of weathered wood and can be used on old and new timber. This latest development of the seal is claimed to be an advance on linseed oil treatment in that it gives a greater degree of protection and leaves no trace of stickiness.

Lighter Hardboard

The Boards Division of the Bowater Paper Corporation, Bowater House, Stratton-street, London, W1, have introduced a new standard hardboard 1/10th in. thick. This gives a weight saving of more than 23 per cent, and can cost as much as 12½ per cent. less than the standard ⅛ in. board. For use as a covering or a base material, the 1/10th in. board is particularly suitable for any "blanking" operation in that large numbers of holes or slots can be punched in panels of any shape or size. New uses for this lightweight board are many, but the standard ⅛ in. board is recommended for most normal building purposes.

WC Test

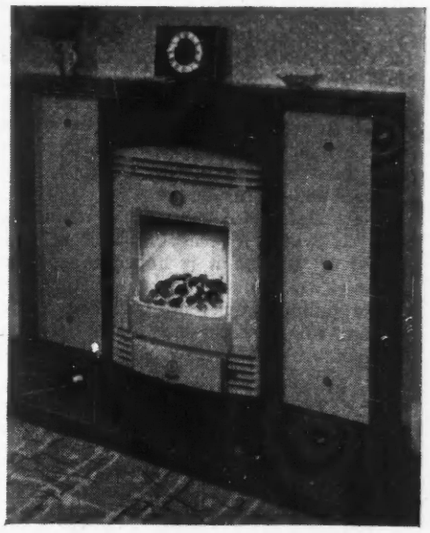
A Fordham Seamless Steel flushing cistern fitted with the Fordham All Polythene Syphon and the Fordham Polythene Ball Float has been subjected to a most exhaustive test by the South African Bureau of Standards. The test consisted of 100,000 flushes, equivalent to about 40 years' use by the average family. Full details can be obtained from Fordhams Pressings, Ltd., Dudley-road, Wolverhampton.

Australian Safety Appliance

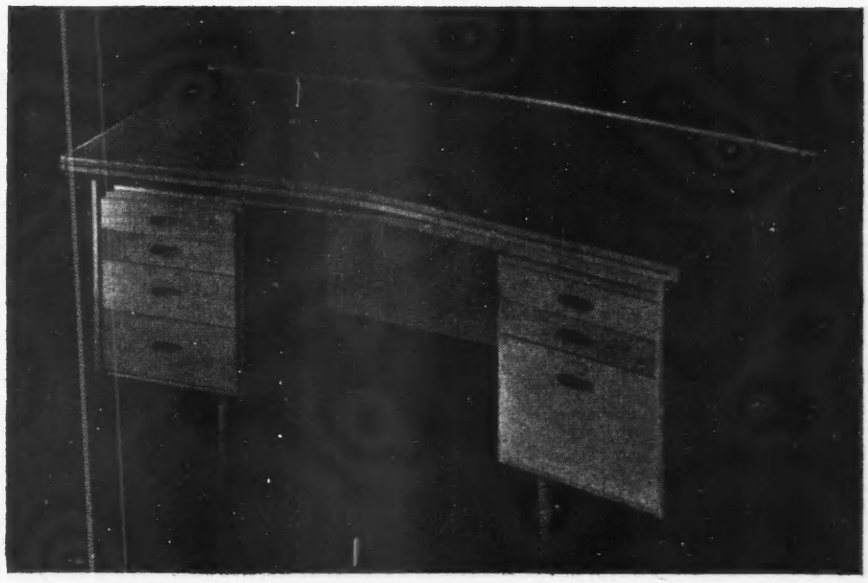
An Australian invention demonstrated recently in Sydney is claimed to eliminate all danger from electrical appliances. It consists of a four-pin electrical plug with a control unit. The latter automatically switches off the current if a fault develops. Two secret devices which are embodied in the design are held under world patents by the inventor, Mr. Cecil Goninan. The control unit is necessary only where the present standard wiring is installed. New buildings can be wired for special sockets to take the new plugs. The Sydney County Council has approved the invention and recommends its installation in homes and business premises.

Smoke Consuming Fire

The latest model "Parkray" fire, No. 4, by Radiation, Ltd., 7, Stratford-place, W1, is a smoke-consuming convector fitted with a boiler. It works on the down-draught principle. Air inlets for the convected heat are at the bottom of the fire, outlet louvres are at the top. Two controls, draught and air supply, are at the top and bottom of the fire; they are marked so that accurate and repeatable settings can be made.



Parkray No. 4 by Radiation, Ltd.



NEW RAILWAY STAFF HOSTEL

Meeting the Needs of Modernisation

WORK is now in progress on a new Eastern Region staff hostel at Aldersbrook, near Ilford. There are shortages in the "key" operating and motive power grades, particularly on the LTS section, and in an attempt to overcome these difficulties invitations have been made to staff and new entrants in areas where the labour situation is easier. The scheme depends to a large extent upon the provision of suitable accommodation and the new hostel is designed to meet this need.

The new building will be constructed on the "Derwent" system of prefabricated timber construction, which has the advantage that it can be dismantled if no longer required and the units used again.

The new hostel will accommodate 250 men. Each will have an individual bedroom finished in varying pastel shades and recreational rooms for indoor games are provided. A well-furnished dining-room and a reading-room are included in the scheme. The hostel will have modern toilets equipped with showers and slipper baths.

The building will consist of a main block with six wings covering an area of about 76,000 sq. ft. and it is hoped to complete the work by the autumn.

The building units are supplied by Vic Hallam, Ltd., and the erection is being carried out by Messrs. Bovis, Ltd.

THE FUNCTIONS OF PROFIT

When Increased Dividends are Justified

ADDRESSING the Summer School of the National Union of Mineworkers at Ilkley, Yorkshire, on July 23, on "Work, Wages and Profits," MR. HALFORD REDDISH, chairman and managing director of the Rugby Portland Cement Co., Ltd., quoted the general secretary of the Associated Society of Locomotive Engineers and Firemen, who said last year: "A man is entitled to a reward commensurate with his skill and with the responsibility of his position. This principle is as old as the free society and will perish with it."

"I agree wholeheartedly with that sentiment," said Mr. Reddish, "and I imagine that you all do. We are all free enterprisers in the sense that we want to sell our labour for the best price it will fetch—in short, for what the market will stand."

Mr. Reddish referred to what he called "the essential partnership of industrial enterprise"—the partnership between labour and capital, labour being remunerated by the payment of wages and salaries which were in effect guaranteed irrespective of the result of the enterprise, while capital took the risk and received its reward of such profit (or loss!) as might emerge.

One of the main functions of profit, he pointed out, was the building up of wealth in the interests of all concerned, and profits were after all the only bulwark behind wages and salaries and the continuity of employment of all those working in a company.

After dealing with such questions as the distribution of profits, Mr. Reddish said that usually only part of the profit, which unquestionably belonged to the ordinary shareholders, was distributed in dividend, the balance being retained in the company—which meant in effect that the shareholders were putting up fresh capital each year. And if there was no increase in the dividend that fresh capital would be unrewarded.

"So you see," he said, "there is a clear justification, if a company is successful and is paying out only a small proportion of its profits in dividend, for an increase in the rate of that dividend from time to time. Perhaps 'justification' is not a strong enough word. Perhaps I ought to say 'necessity,' not only as a matter of fairness to the shareholders (including the pension funds of the nationalised industries and others!) but also because the company may want to expand and to raise fresh capital to enable it to do so. And unless its existing capital is adequately rewarded, the company will obviously find it a difficult matter to attract new capital."

READY-MIXED CONCRETE VEHICLES

Lower Excise Tax

SOME operators of ready-mixed concrete vehicles will benefit next year from lower taxation as a result of the provisions of Section 5 of the Finance (No. 2) Act, 1956, which recently received the Royal Assent, writes a correspondent.

At the present time excise tax on mobile concrete mixing vehicles is based on the unladen weight including the weight of the mixing plant. From January 1 next, however, only the first 30 cwts. of the mixing plant is to be included in the unladen weight of the vehicle. Any excess will be counted as part of the load.

Thus, operators of 2½ cu. yd. mixers mounted on vehicle chassis will save approximately 1 ton of unladen weight as this equipment weighs approximately 2½ tons. The weight of 4½ cu. yd. mixers mounted on six-wheeled chassis is in the neighbourhood of 3½ tons and operators of this model will save the tax payable on approximately 2 tons of the present unladen weight.

CONVERSION OF MOTOR VEHICLES

"Special" Cars Exempted from Purchase Tax

THE Commissioners of Customs and Excise have issued Public Notice No. 77J (Revised) to explain the provisions of Section 7 of the Finance Act, 1956.

With effect from June 1, 1956, Purchase Tax is chargeable whenever a vehicle which has not borne tax at the full rate is converted into a car or shooting-brake type of vehicle (e.g., by the insertion of side windows to the rear of the driver's seat in a van, whether new or not).

As a result of amendments to the Finance Bill, amateur builders of "special" cars who assemble them from new or second-hand parts will not incur liability to Purchase Tax under the Act. The May edition of Notice No. 77J, which was based on the position prior to these amendments, is now superseded.

Copies of Notice No. 77J (revised) may be obtained from the local Officer of Customs and Excise.

TRADE NEWS

New Premises

THE steady expansion of the business of Dallow Lambert and Co., Ltd., Thurmaston, Leicester (Dust Control Equipment for Industry), has necessitated a change in its London office facilities. More accommodation has now been taken at 6, Stratton-street, London, W1. Tel.: Grosvenor 4766.

Trade Journal

The July edition of the Gypsum journal, No. 4, contains articles on fire-check flush doors, plasterboard and the By-laws, and the Rebirth of the Plastering Industry.

Prestressed Concrete Brochure

A new brochure has been produced for Girlings' Ferro Concrete Co., Ltd., of Great West-road, Feltham, Middlesex, covering prestressed concrete, post tensioned units and high-grade reinforced concrete castings for structural and civil engineering requirements.

Change of Address

Horace W. Cullum and Co., Ltd., the acoustic and soundproofing consultants and contractors, have removed to larger premises at 58, Highgate West Hill, London, N6. Telephone: Fitzroy 1221 (5 lines). Horace W. Cullum and Co., Ltd., are exclusive agents for Acousti-Celotex Tiles.

Glasgow Winch Factory

The Hyster Company of Peoria, Illinois and Portland, Oregon, USA, have just announced plans to open a factory near Glasgow. The new plant, which is expected to start production this autumn, will manufacture the established range of logging winches for Caterpillar crawler tractors. These have previously been available only from the USA for dollars.

Marchwood Generating Station

The 425 ft. reinforced concrete chimney at Marchwood generating station (illustrated in our issue of July 6) was built by Chimneys, Ltd., 47, Victoria-street, SW1.

Publication

"Broomwade" News Bulletin is published bi-monthly by Broom and Wade, Ltd., High Wycombe, Bucks, and is mainly about air compressors and pneumatic tools.

FIRE ESCAPES IN TALL BUILDINGS

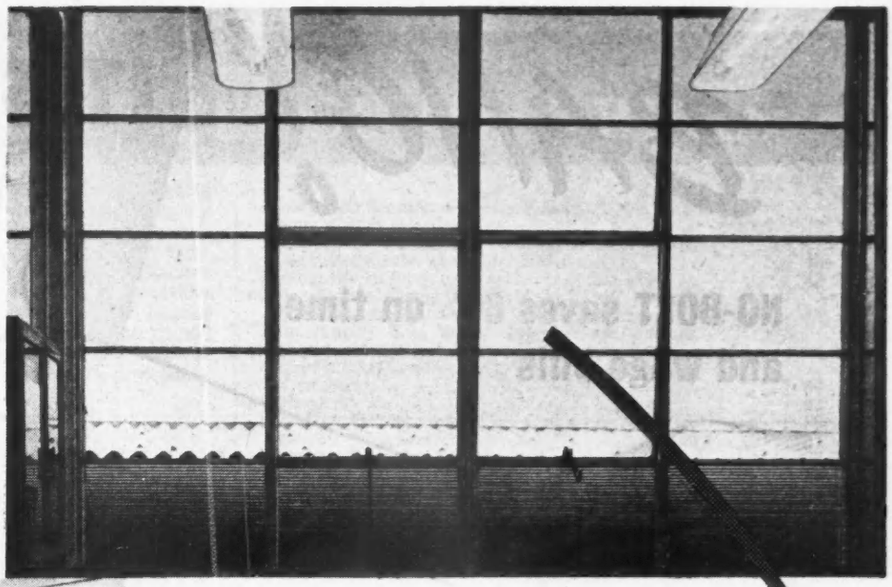
Legal Action Urged

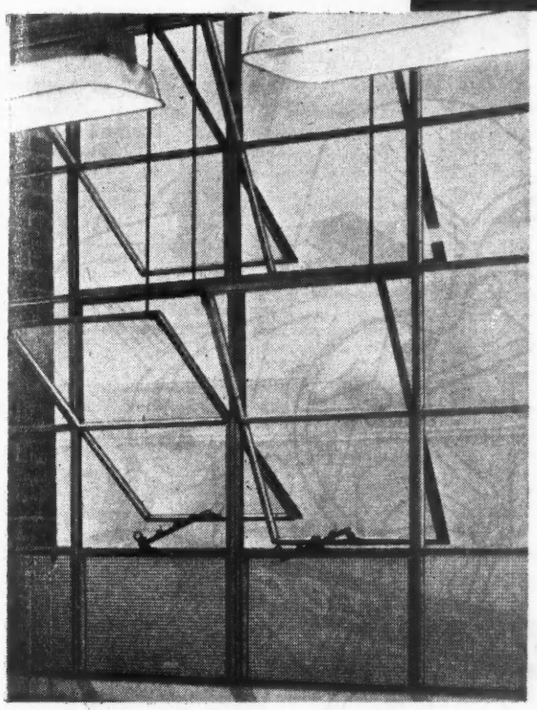
DISTRICT COUNCILS in Oxfordshire are being urged by the county council to take legal action requiring property owners to provide proper means of escape in case of fire.

This follows a report from the county fire brigade committee on the number of high buildings in many places throughout the county.

The committee says they are so positioned that it would be very difficult for the fire service to reach their top floors with their equipment in case of fire whilst at the same time these premises lack adequate means of escape of their own for their occupants.

The committee says it is felt the position would be greatly alleviated if councils were to exercise their powers requiring fire escapes to be provided.





ANOTHER **BEANES** SOLUTION

to a specific problem . . .

. . . this time, the problem of windows for the new Ilford Research Laboratories. The basic requirements were: optimum daylighting; ample, easily controlled natural ventilation; clear run of inside sill for bottles and apparatus; and a scrupulous cleanness not only in appearance but also in fact.

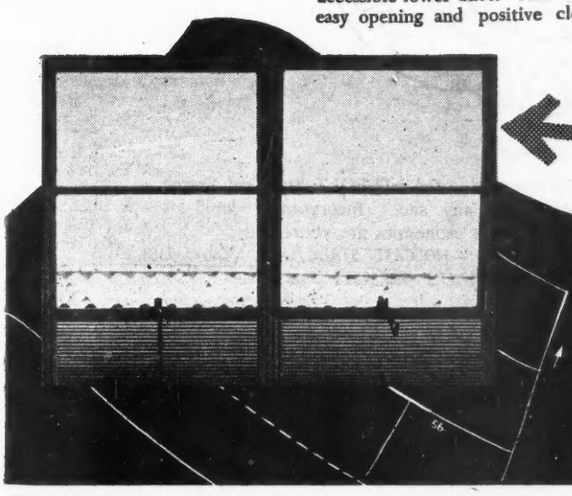
The solution, once again, lay in "purpose made" steel windows by Beanes.

As one of the oldest and most experienced practitioners in the craft of metal windows, we see it as our business to *make* what you *create*: the special character, the special function for which there can be no standard provision. Why not get in touch with us about your next window problem?

Middle. Upper lights are automatically couple-controlled by the accessible lower ones. This ensures easy opening and positive closure.

Top. General view showing the extra workspace created by fixed bottom lights. Specially shaped hardwood glazing beads discourage the collection of dust and check condensation.

Photographs by courtesy of Messrs. Ilford Ltd.



Bottom: Slide-bar opening was chosen as both simple and reliable. Note that the bar is clear of the sill in *all* positions.

A. Beanes & Co. Ltd.

Metal Window Manufacturers for 70 years

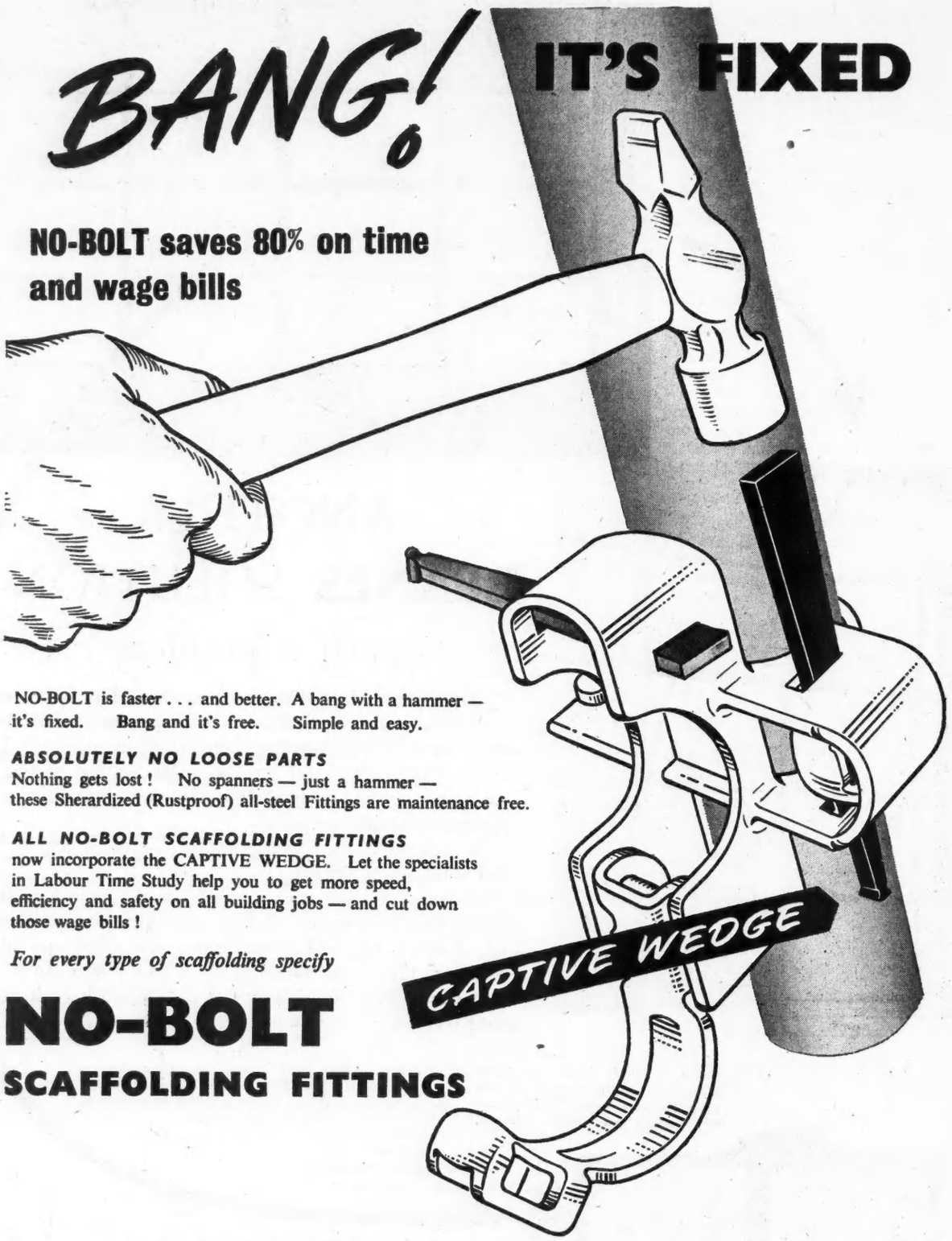
BRIDGE WHARF, BISHOPS BRIDGE ROAD, LONDON, W.2.

Phone: PADdington 4058 / 3144

BEA 7087

BANG! IT'S FIXED

NO-BOLT saves 80% on time and wage bills



NO-BOLT is faster . . . and better. A bang with a hammer — it's fixed. Bang and it's free. Simple and easy.

ABSOLUTELY NO LOOSE PARTS
Nothing gets lost ! No spanners — just a hammer — these Sherardized (Rustproof) all-steel Fittings are maintenance free.

ALL NO-BOLT SCAFFOLDING FITTINGS
now incorporate the CAPTIVE WEDGE. Let the specialists in Labour Time Study help you to get more speed, efficiency and safety on all building jobs — and cut down those wage bills !

For every type of scaffolding specify

NO-BOLT
SCAFFOLDING FITTINGS

The NO-BOLT Scaffolding range includes the latest cost-cutting scaffold construction — the NO-BOLT Standard Frame. Fastest-ever form of independent scaffolding on any site. Incorporates rapid corner locking and adjustable bases. Other on-site economies are yours with NO-BOLT Sectional Scaffolding. *We also offer:—HOLCAST STRUCTURAL FORMWORK B.B. SHOREPROPS · B.B. TRENCH STRUTS · BUILDERS' TRESTLES PLANT AND TOOLS OF ALL DESCRIPTIONS.*

BB&EA

Write to-day for catalogue No. 55
BRITISH BUILDING & ENGINEERING APPLIANCES LTD.
63-65 London Road Sandy Bedfordshire
Telephone: Sandy 104 *Telegrams:* Access Sandy

The Builder

CURRENT PRICES OF MATERIALS

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. Due to the exceptional circumstances now prevailing it is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	6	0
Pit Sand	"	1	3	5
Washed Sand	"	1	6	7
¾ in. Shingle	"	1	2	11
¾ in. Broken Brick	"	1	0	6
Pan Breeze	"		10	9
Fine or Coarse Foamed Slag Aggregate	per ton	3	0	9

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	4	6
1 to 6 tons, site	"	5	16	6
Rapid Hardening Cement in 6-ton loads and upwards to site	"	5	15	0
1 to 6 tons do. site	"	6	7	0
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colorcrete in 6-ton lots	"	8	1	0
Other colours according to colour.				
In 4-ton lots from 298s. 0d. to 688s. 0d. per ton.				
White Portland Cement	"	13	5	0
Under 1 ton	per cwt.		15	10
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	6	17	0
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards).				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	"	14	15	9
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	"	6	12	9
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

Full Loads.

First Hard Stocks	per 1,000	12	17	0
Second Hard Stocks	"	11	16	0
Mild Stocks (Kiln Burnt)	"	9	1	6
Mild Stocks	"	8	16	6
All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.				
2½ in. Nominal Fletton Bricks to sites in W.C.				
District Commons	"	5	15	0
Cellular do.	"	5	15	0
Keyed do.	"	5	17	0
Rustics	"	7	5	0
Cellular Rustics	"	7	5	0
Single Bullnose Commons	"	7	5	0
Sandfaced	"	8	2	6
Tuscans	"	8	17	6
Saxons	"	9	5	6
Golden Buffs	"	9	12	6
Best Blue Pressed Staffs (London Stations)	"	28	15	6
Do. Bullnose (London Stations)	"	29	9	6
Blue Wire Cuts (London Stations)	"	25	19	0
Midhurst Lime Bricks (London sites)	"	10	8	0
Uxbridge Whites (London sites)	"	9	17	0
Special Purpose Sandlime Bricks (London sites)	"	7	14	0
2½ in. Best Stourbridge Fire Bricks (London stations)	"	27	16	3
3 in. do. (London stations)	"	33	8	0
2½ in. Moler Flue Bricks (London sites)	"	36	0	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	"	15	8	6
2½ in. Machine-made Multi Red Facings (London sites)	"	15	13	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	"	15	6	0
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	"	16	1	0
Hand-made Sandfaced Cherry Red Facings. Berkshire district (London sites)	per 1,000	18	11	9
Hand-made Sandfaced Multi-Colour Facings. Berkshire district (London sites)	"	18	6	3
Rubber Bricks for gauged arches (London sites)	"	42	15	0
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	"	13	6	0
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	"	14	18	0
Glazed Bricks (London sites), White, Ivory, Brown—				
Stretchers	"	64	0	0
Headers	"	63	0	0
Quoins, Bullnose and 4½ in. Flats	"	80	0	0
Double Stretchers	"	85	0	0
Double Headers	"	77	10	0
One side and two ends	"	87	0	0
Two sides and one end	"	89	10	0
Splays and Squints	"	83	0	0

Cream and Buff £3 extra over White. Other colours, hard glaze, £8 10s. 0d. extra over White. All above prices plus 25% for Best quality and plus 25% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District).

	Minimum lorry loads.				
Hollow Clay Partition Blocks (Keyed)					
*2 in.	140 yds.	per yd. sup.	4	5	
*2½ in.	140 yds.	"	4	8	
*3 in. (3 cavity)	120 yds.	"	5	5	
Building Blocks (Keyed)					
*3 in. (6 cavity)	110 yds.	"	5	7	
*4 in. (6 cavity)	95 yds.	"	6	10	
6 in. (8¾ in. × 5¾ in.)	1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

Clinker Concrete					
2 in.	100 yds.	per yd. sup	3	9	
2½ in.	85 yds.	"	4	4	
3 in.	75 yds.	"	5	3	
4 in.	55 yds.	"	6	5	
Cranham					
2 in.		"	6	8	
2½ in.		"	7	4	
3 in.		"	8	7	
4 in.		"	10	7	
4½ in. Load bearing quality		"	11	8	
Moler Partition Blocks					
2 in.	150 yds.	"	15	6	
2½ in.	120 yds.	"	15	9	
3 in.	100 yds.	"	16	0	
4 in.	90 yds.	"	19	0	
Lightweight Concrete Building and Partition Blocks of Various Sources of Manufacture					
2 in.	100 yds.	"	5	9	
2½ in.	80 yds.	"	6	11	
3 in.	65 yds.	"	8	1	
4 in.	50 yds.	"	9	6	
4½ in.	44 yds.	"	10	2	
6 in.	33 yds.	"	13	8	
Thermalite-Ytong Partition Blocks					
2½ in.	120 yds.	"	6	11	
Thermalite-Ytong Loadbearing Insulating Blocks					
3 in.	100 yds.	"	8	3½	
4 in.	75 yds.	"	10	9	
5 in.	60 yds.	"	13	5	
6 in.	50 yds.	"	16	1½	
8½ in.	35 yds.	"	1	3	0½
Floor Blocks and Filler Tiles					
3 in. Floor Blocks 12 in. by 12 in. delivered in full lorry-loads		per 1,000	34	1	0
4 in. do.		"	36	10	0
5 in. do.		"	43	15	0
6 in. do.		"	49	19	0
7 in. do.		"	61	8	0
8 in. do.		"	71	19	0
12" × 3" × ⅜" Filler Tiles in multiples of 10 tiles	per 1,000 multiples		42	15	0
12" × 4" × ¾" do.	do.		73	15	0

STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Standard List prices delivered London Area.

Delivered ex Merchants Wharf or Depot or Manufacturers Works.

	Over 2 tons	Over 100 pieces Under 2 tons	Under 100 pieces Under 2 tons
Best Quality	+85%	+117½%	+130%
BSS Best do.	+10% +85%	+10% +117½%	+10% +130%
Tested Quality	+37½% +85%	+37½% +117½%	+37½% +130%
BSS Tested do.	+47½% +85%	+47½% +117½%	+47½% +130%

STONEWARE DRAIN PIPES, etc.—*continued*

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths) ...	per 1,000	11	5	6
4 in. do.	„	14	16	6
6 in. do.	„	30	14	0
9 in. do.	„	58	9	0

DAMP COURSE

Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.	3	3½	
Asbestos base ditto 7 lb. per yd. sup. do. do.	„	5	2	
Lead lined bitumen ditto 9¼ lb. per yd. sup. do.	„	12	2	
18 in. × 9 in. British damp course slates	per 1,000	41	12	8
14 in. × 9 in. do. do.	„	32	0	0
9 in. × 9 in. do. do.	„	18	2	6
18 in. × 4½ in. do. do.	„	19	2	6
14 in. × 4½ in. do. do.	„	15	4	9
9 in. × 4½ in. do. do.	„	10	5	3

STONE

Bath Stone—				
Monks Park	per ft. cube	8	1½	
St. Aldhelm Box Ground	„	9	1½	
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	„	8	11	
Beer Stone. Delivered London area	„	8	5	
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	„	8	5	
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stooled cills	per ft. cube	3	17	9
12 in. × 6 in. do. do.	„	2	15	6
12 in. × 3 in. Plain coping, twice throated ...	„	2	3	0
12 in. × 3 in. Weathered and twice throated coping	„	2	17	3
14 in. × 6 in. do. do.	„	2	11	9
4½ in. × 9 in. Plinth, rubbed on top and face ...	„	2	6	3
3 in. sawn two sides Slabs, random sizes	per ft. sup.		8	3
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	8	3
Do. do. fair one edge for fair faced brickwork	„	1	13	6
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		10	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	12	9
12 in. × 6 in. Plain Steps, rubbed top and front ...	„	2	6	3
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		9	4
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	5	3

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000			
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	8	0
Hand-made Pantiles Berkshire district	55	10	0
Hand-made Double Roman Bridgwater district	58	13	6
Hand-made 10½ × 6½ tiles Berkshire district	15	5	0
Machine-made 10½ × 6½ Staffordshire district	13	18	9
Hand-made Hip and Valley tiles per doz.	1	11	3
Machine-made Hip and Valley tiles do.	1	8	0
Concrete tiles 10½ × 6½	8	1	6
do. Interlocking (49S)	19	0	0

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate Station. Per 1,000 actual.			
24 × 12	137	2	4
22 × 12	111	8	0
22 × 11	100	14	1
20 × 12	94	9	10
20 × 10	90	8	6
18 × 10	62	17	0
18 × 9	55	1	6
16 × 10	49	10	0
16 × 8	38	15	3

NOTE.—breakage in transit, purchasers' responsibility.

TIMBER

Softwood—				
Joinery quality	Ex. Wharf	per standard	£115 to £140	
Carcassing quality	do.	„	£100 to £105	
1 in. Tongued and Grooved Flooring	do.	„	£110	0 0
Hardwood—				
Mahogany—African S.E. ...	do.	per ft. cube	1	10 0
do. Honduras do. ...	do.	„	3	5 0
Oak European do. ...	do.	„	2	5 0
do. Japanese do. ...	do.	„	2	10 0
do. English Logs sawn ...	do.	„	1	17 6
Teak 8 in. average S.E. ...	do.	„	3	17 6
Walnut African Logs sawn ...	do.	„	1	5 0

DOORS (in Lots I-II)

		£	s.	d.
Delivered London area.				
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2ft. 0 in. × 6 ft. 6 in.	each	1	12	0
2 ft. 3 in. × 6 ft. 6 in.	„	1	13	0
2 ft. 6 in. × 6 ft. 6 in.	„	1	14	0
2 ft. 9 in. × 6 ft. 6 in.	„	1	16	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	„	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	„	2	11	6
2 in. Panel, top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	„	2	1	9
2 ft. 9 in. × 6 ft. 6 in.	„	2	3	6

SUNDRIES

Delivered London area.				
1 in. Wood Wool Slabs, 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		5	8
1½ in. do. (67 yds. to 1 ton)	„		7	4
2 in. do. (52 yds. to 1 ton)	„		8	11½
2½ in. do. (45 yds. to 1 ton)	„		10	3
3 in. do. (39 yds. to 1 ton)	„		11	5½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
⅛ in. Hardboard do.	„	2	1	6
5/16 in. do. do.	„	3	2	6
3/16 in. Asbestos Flat Building Sheets	per yd. sup.		3	8
¼ in. do.	„		4	10
Roofing Felt, 1-ply	„		1	7
do. 2-ply	„		2	0
Best Scotch Glue in slabs	per ½ cwt.	5	0	0
do. pearl	„	5	5	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	70	10	0
do. 4 in. and up (1-ton lots)	„	67	0	0
Wire Nails, 3 in. (4-cwt. lots)	per cwt.	3	3	6
do. 4 in. and up (4-cwt. lots)	„	3	3	0

METALS

STEEL JOISTS, ETC.

Basis Joists—				
6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in. 12 in. × 6 in. plain cut to lengths delivered London area	per ton	44	5	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	„	3	10	0
3 in. × 3 in.	„	2	10	9
4 in. × 3 in. 10 in. × 4½ in.	„	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	„	1	15	0
4¾ in. × 1¾ in.	„	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in.	„		15	0
6 in. × 3 in. 24 in. × 7½ in.	„	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. } 9 in. × 4 in. 10 in. × 5 in.	„	1	5	0
12 in. × 5 in. 22 in. × 7 in.	„	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. } 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. } 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. } 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. } 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.	„		10	0
Steel angles average price	„	46	5	0
Steel tees average price	„	47	5	0
Fabricated work delivered London—				
R.S. Joists cut and fitted	„	61	7	6
Compound girders	„	67	10	0
Stanchions	„	72	17	6
Compound stanchions	„	77	5	0
In Roof Work—Trusses and Purlins	„	90	10	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	3	0

FERRO-CONCRETE BARS

Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock ⅝ in. diam., and upwards	per ton	44	10	0
¼ in. diam.	„ extra	8	12	0
5/16 in. do.	„	6	12	0
⅜ in. do.	„	4	12	0
½ in. do.	„	3	2	0

MILD STEEL TUBES

Tubes to BSS1387 and Fittings. List prices and following discounts :

Galvanised Tube—	W.I. Fittings.	Malleable Fittings
Class A + 10¾%		
Class B + 22 %	Light + 38¾%	Malleable List—28¾% + 40%
Class C + 40 %	Heavy + 46¼%	

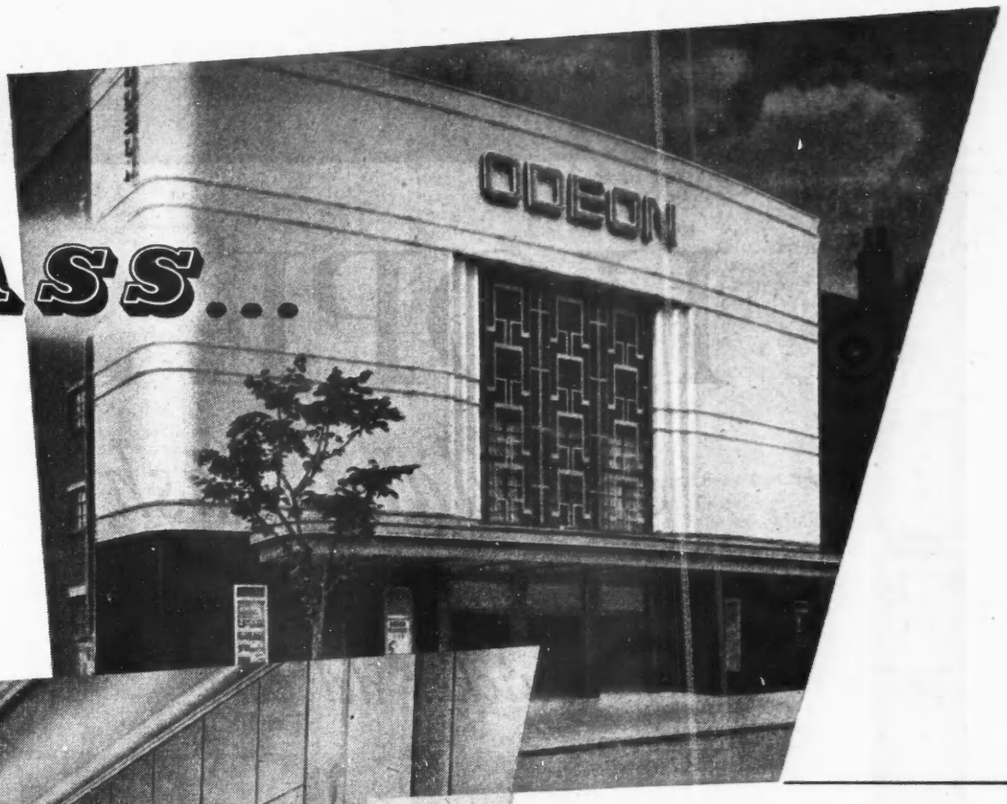
Black—		
Class A − 11¼%		
Class B + ¾%	Light + 55½%	Malleable List—28¾%
Class C + 15 %	Heavy + 33 %	

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6-ft. lengths

	Gutters	Nozzles	Stop Ends
3 in.	3/8½	3/4	/11
3½ in.	4/0½	3/7	/11
4 in.	5/2½	4/1	1/5
4½ in.	5/8½	4/6	1/8
5 in.	6/4½	4/11	2/0

GLASS...



outside

Glass for longevity—offering the greatest resistance of any building material to dirt, smoke, fumes, and weathering.
Here, panels of cream opaque glass with a matt surface have been used in conjunction with black granulated opaque glass.

...and in

Glass for dignity and splendour; for extra light and a feeling of spaciousness. These sectional brilliant-cut mirrors are so exactly fixed as to be free of all distortion. Note the facetted column mirrors and the ingenious use of glass for the fireplace surround, and for the occasional table.

PUGH BROS. LTD
Craftsmen in Glass

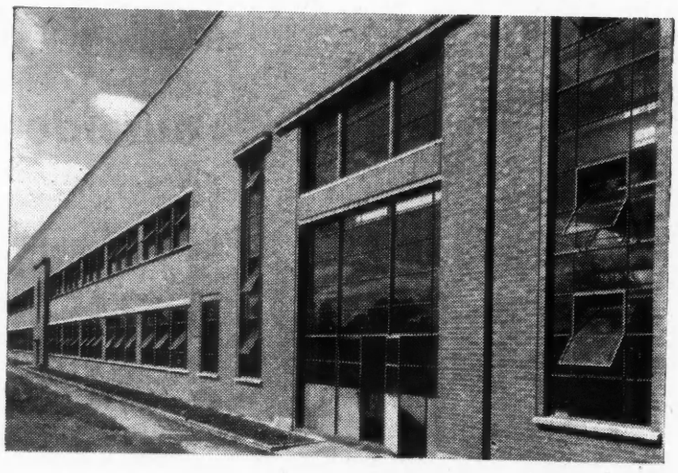
20-23 GREVILLE STREET · LONDON · EC1 · TELEPHONE CHAncery 5311

January February March April

HOPE'S

Standard Sash

for lower cost and quicker delivery



4 weeks delivery in standard sizes

See Catalogue 309

HENRY HOPE & SONS LTD

Smethwick, Birmingham & 17 Berners St., London W.1

MEMBER OF THE METAL WINDOW ASSOCIATION

May June July August

METAL—*continued*

C.I.O.G. Gutters

	Gutters	Nozzle	Stop Ends
3 in. ...	4/9½	4/4	1/2
3½ in. ...	5/4	4/4	1/5
4 in. ...	5/11	4/6	1/8
4½ in. ...	6/4½	5/2	2/0
5 in. ...	7/0	5/11	2/3

C.I. Rain-water Pipes

Per yd. in 6-ft. lengths	Pipe	Bends	Branches
2 in. ...	7/11	4/1	5/10
2½ in. ...	7/11	4/6	7/10
3 in. ...	8/11	5/8	8/5
3½ in. ...	10/1½	6/8	10/2
4 in. ...	11/8½	8/1	12/0

L.C.C. Coated Soil Pipes

2 in. ...	9/0	7/0	8/5
2½ in. ...	9/5½	7/8	10/6
3 in. ...	10/8	8/5	12/6
3½ in. ...	11/11	10/6	14/7
4 in. ...	13/6½	11/9	17/2

Above prices for gutters, rain-water and soil pipes for under 5 cwt. lots only. Lots over 5 cwt. see List No. 3300 dated February 1, 1955, plus 12½% and tonnage allowance. 4-ton lots 5 per cent., 2-ton lots 2½ per cent.

L.C.C. Coated Drain Pipes

In 9-fts.

	cwt.	qr.	lb.	per yd.	Bends	Branches
4 in. ...	1	1	17	31/4	21/9	38/9
6 in. ...	2	0	1	46/2	58/0	92/9

Asbestos Rain-water Pipes and Fittings

All less 17½ per cent. discount.

		2 in.	2½ in.	3 in.	4 in.
Pipes 6-ft. lengths	per yd.	3/11½	4/3	5/1½	6/9½
Shoes	each	2/7	2/10	3/4	4/6
Single Branches	,,	4/–	4/9	5/8	7/11
Bends square or obtuse ...	,,	2/10	3/1	4/–	5/8
Swan Necks 4½ in. proj. ...	,,	3/1	4/–	4/6	6/3
do. 6 in. do. ...	,,	3/4	4/–	5/1	6/9

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters 6 ft. lengths ...	per yd.	3/8½	4/2	4/11½	5/11½
Drop ends	each	3/–	3/6	4/1	4/10
Stop ends	,,	–/11	1/–	1/1	1/3
Angles	,,	3/1	3/7	4/4	5/1
Nozzles	,,	3/–	3/6	4/1	4/10
Union Clips	,,	1/6	1/9	2/2	2/6

Asbestos Half-Round Gutters and Fittings

		3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters 6 ft. lengths ...	per yd.	2/7½	3/1½	3/2½	3/9½	5/3½
Drop ends	each	2/2	2/7	2/10	3/1	4/6
Stop ends	,,	–/10	–/11	1/–	1/1	1/3
Angles	,,	2/6	2/10	3/1	3/4	4/6
Nozzles	,,	2/2	2/7	2/10	3/1	4/6
Union Clips	,,	1/1	1/2	1/3	1/5	2/1

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality	43 12 6
Mild Steel Bars	46 18 0
Mild Steel Hoops	42 17 6

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge	56 2 6
24 gauge	58 12 6
26 gauge	61 12 6
Galvanised Corrugated sheets 6 ft. to 9 ft.—	
20 gauge	64 0 0
24 gauge	67 10 0
26 gauge	72 15 0
Galvanised flat sheets C.R. and C.A.—	
20 gauge	65 0 0
24 gauge	67 10 0
26 gauge	73 5 0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base prices)		£ s. d.
Sheet BS 1470 SIC 18 SWG (36 in. wide)	per lb.	2 9½
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide) ...	,,	2 7
Coiled strip BS 1470 S1C 18 SWG (24 in. wide) ...	,,	2 8½
Coiled strip BS 1470 NS 3 Utility 18 SWG (24 in. wide)	,,	2 6½
Coiled strip for flashing 99.7% purity 22 SWG (12 in. wide)	,,	2 11
Corrugated sheet BS 1470 NS 3 Utility Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1 11 0
Corrugated sheet BS 1470 NS 3 Utility Industrial Profile 8 ft. × 31¾ in. × 20 SWG	,,	1 16 9
Corrugated sheet BS 1470 NS 3 Utility Mansard Profile 8 ft. × 31¾ × 20 SWG	,,	1 10 2
Extruded section BS 1476 E1C simple moulding ...	per lb.	2 7½
Extruded section BS 1476 E1C 1 in. diam. round ...	,,	2 5
Extruded section BS 1476 HE1WP simple angle ...	,,	2 10½
Extruded section BS 1476 HE10WP 1 in. diam. round	,,	2 9½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	,,	4 2½
Tubing BS 1471 HT10WP 1½ in. O/D × SWG ...	,,	5 5½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

M.O.H.

All per doz.	½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron	87/–	128/8				
Toilet bib cocks for iron ...	109/–	158/5				
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves ...	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–

	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass sleeves		31/11	31/11	56/2	74/10	91/5

	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.
Lead P. trap with brass cleaning screws	70/9	88/6	141/7	241/11
Lead S. trap do.	85/6	106/3	174/–	312/8

Solder		s. d.
Plumbers'	per lb.	3 10
Tinmen's	,,	4 7
Blow pipe	,,	4 8

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 37¾d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 3 cwt.

	Extra d.		d.		d.
½ in. × 19 gauge ...	13½	Total per lb.	51¾	approx. per ft.	14
¾ in. × 19 ,, ...	11⅞	,, ,,	49¼	,, ,,	19½
1 in. × 18 ,, ...	10⅝	,, ,,	48¼	,, ,,	30
1¼ in. × 18 ,, ...	9¾	,, ,,	47⅞	,, ,,	36¼
1½ in. × 18 ,, ...	9¼	,, ,,	47⅜	,, ,,	43¼
2 in. × 17 ,, ...	11⅞	,, ,,	49¼	,, ,,	69

		£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	per ton	372 15 0

Zinc

			£ s. d.
Sheet Zinc	10 gauge (25 SWG) 5 cwt. lots upwards	per cwt.	8 5 9
do.	12 gauge (23 SWG)	,,	8 3 3
do.	14 gauge (21 SWG)	,,	8 2 0

Brass Tubes

		s. d.
Brass tubes basic price, plus gauge and manufacturing extras	per lb.	2 6¾

LEAD SHEET AND PIPES

Basis selling price in minimum one-ton delivery to one address in London or Home Counties.

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	155 5 0
Lead Water Pipe in coils	,,	157 10 0
Lead Soil Pipe 10 ft. or over 2 in. to 4 in. dia. ...	,,	159 0 0
,, over 4 in. dia.	,,	161 0 0
Lead Gas or Untinned Compo pipe	,,	159 0 0
Extras over Basis for quantities under 1 ton		
5 cwt. and under 1 ton	per cwt.	2 0
3 cwt. do. 5 cwt.	,,	4 0
1 cwt. do. 3 cwt.	,,	6 0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected £105 15s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£ s. d.
Coarse Pink in 1-ton loads and over Delivered on Site	per ton	8 0 0
do. White do. do. ...	,,	8 9 6
Sirapite Coarse do. do. ...	,,	8 2 0
do. Fine do. do. ...	,,	8 10 0
Blue Lias Lime in 6-ton loads	,,	6 14 6
Hydrated Lime (Grey) do.	,,	5 17 6
do. (White) do.	,,	6 5 0
Lump Lime (Grey) do.	,,	5 7 0
do. (White) do.	,,	5 14 6
White Keen's or Parian Cement in 1-ton loads ...	,,	11 9 6
Pink Keen's or Parian Cement in 1-ton loads ...	,,	11 4 3
Granite Chips in 6-ton loads	,,	2 9 4
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board ⅜ in. thick 600 yds. and over in one delivery. Delivered site ...	per yd.	2 4
1,200 yds.	,,	2 3¼
Do. Insulating do. ⅜ in. thick 600 yds. and over in one delivery. Delivered site	,,	3 0
1,200 yds.	,,	2 11¼
Gypsum Plaster Wall Boards, 3 and 4 ft. wide, 6 to 12 ft., ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	2 7
1,200 yds.	,,	2 6¼
Do. Insulating do. ⅜ in. thick 600 yds. and over in one delivery. Delivered site	,,	3 3
1,200 yds.	,,	3 2¼

PAINT AND DISTEMPER

Delivered London area		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	„	5	5	0
Gloss Paint	per gal.	2	10	0
Snowcem cement paint (in 1 cwt. drums)	per cwt.	3	11	0
LEAD PRODUCTS AND OILS				
Ground White Lead, 1 cwt. kegs	per cwt.	9	14	0
Genuine White Lead Paint, 1-19gal. lots in 1 gal. tins	per gal.	3	9	6
Genuine Red Lead, Dry, 1 cwt. keg	per cwt.	7	12	0
Genuine Linseed Oil Putty, 1 cwt. keg	„	2	15	6
Size XD quality, 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		17	3
Boiled Linseed Oil (5 gal.) do.	„		17	9
SUNDRIES.				
Turpentine substitute (5 gal.) drums extra	„		5	6½
do. do. (40 gal.) do. do. ...	„		4	8½
Solignum, Brown (5 gal. cans) Exterior	„		7	4
Creosote (40 gal. barrels)	„		2	0
Paste Powder (1 lb. packets)	per lb.		2	0
White Lining Paper	per piece		1	1

VARNISHES, etc.

Delivered London area				
Oak Varnish, Outside or Inside	per gal.	1	18	0
Oak Pale Copal do.	„	1	18	0
Hard Drying Oak for Inside	„	2	1	0
Crystal Paper Varnish do.	„	2	4	0
Eggshell Flat Varnish do.	„	2	6	0
Finest Carriage Varnish	„	2	5	0
Front Door Varnish	„	2	1	0
Japan Gold Size	„	1	14	0
Black Japan	„	1	15	0
Brunswick Black	„	1	10	0
Berlin Black	„	1	7	6
Terebene	„	1	13	0
Knotting (1 gal. bottles free)...	„	2	7	0
French and Brush Polish (do.)	„	2	0	0

GLASS

Delivered London area	per ft. super s. d.
18 oz. Sheet Glass Ordinary Glazing Quality. Cut Sizes	6¼
24 oz. „ „ „ „ „ „	8¼
26 oz. „ „ „ „ „ „	11
32 oz. „ „ „ „ „ „	1 2½
¼ in. Rolled Plate	10⅞
3/16 in. and ¼ in. Rough Cast	1 2¼

	Per ft. super s. d.
⅛ in. Figured Rolled and Cathedral, Standard patterns:	
White	10⅞
do. Standard Tints	1 8
do. Special Tints	3 4
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating	1 3
¼ in. Wired Cast	1 5
¼ in. Georgian Wired Cast	1 5½
Hollow Glass Blocks—	Each
P.B.2. 5¼ × 5¼ × 3⅞ in.	2 11
P.B.3 7¼ × 7¼ × 3⅞ in.	4 5
P.B.32 7¼ × 7¼ × 3⅞ in.	4 5
Radiused Corner Blocks to match up with—	
P.B.2	5 6
P.B.3	7 0
P.B.32	7 0
¼ in. Polished Plate Glass, G.G. Quality—	Per ft super
In plates not exceeding 2 ft. sup.	3 10
„ „ „ 5 ft. sup.	4 9
„ „ „ 45 ft. sup.	5 7
„ „ „ 100 ft. sup.	6 0

¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality —Not exceeding 135 ft. sup. or 250 in. one way or 135 in. both ways 9 0
Not exceeding 180 ft. sup. or ditto 12 1
Not exceeding 200 ft. sup. or ditto 17 2
Plates exceeding 200 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.

Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	Per ft. sup. s. d.
18 oz. sheet O.Q.	3,000	4⅞
24 oz. „ „	2,000	6¼
26 oz. „ „	2,000	8⅛
32 oz. „ „	2,000	11⅛
¼ in. Rolled Plate	1,000	8⅛
⅛ in. Figured Rolled and Cathedral Standard Patterns, White	1,000	8⅛
⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte...	1,000	11⅞
3/16 in. and ¼ in. Rolled Plate or Rough Cast ...	2,000	1 0
¼ in. Wired Cast, Hexagonal...	2,000	1 2
¼ in. Georgian Wired Cast	2,000	1 2½

The Builder

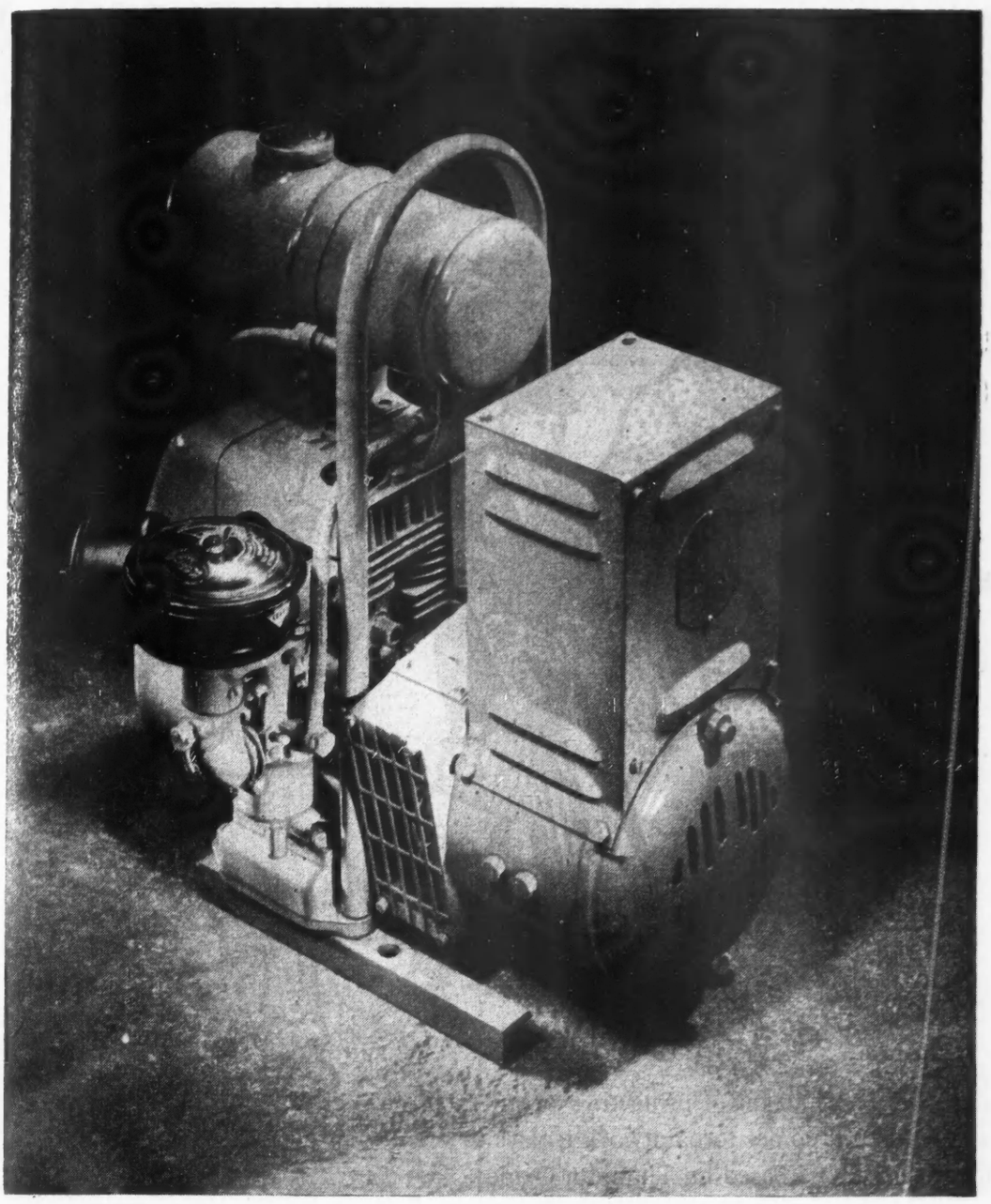
CURRENT RATES OF WAGES

AS FROM APRIL 16, 1956. (Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification.	A	A1	A2
Craftsmen	4/3½	4/3	4/2½
Labourers	3/9	3/8½	3/8

Town.	*Grade.*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A2
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A2
Amersham	A1
Ammanford	A
Andover	A2
Anglesey, Isle of	A2
Ardingly	A2
Arundel	A2
Ascot	A2
Ashbourne RD	A2
Ashbourne UD	A2
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A2
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A2
Atherstone RD	A
Attleborough	A2
Axminster	A2
Aylesbury	A2
Aylesham	A2
Bagshot	A2
Bakewell UD	A2
Banbury	A1
Bangor	A2
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A2
Barrow-in-Furness	A
Barrow-upon-Soar RD (exc. Thrussington A2)	A
Barry	A
Basford RD (exc. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A2
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A1
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A2
Bideford	A2
Biggleswade	A2
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A2
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A2
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A2
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A2
Bognor Regis	A2
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A2
Bracknell	A2
Bradford CB	A
Bradford-on-Avon	A2
Braintree	A1
Brandon & Byshottles UD	A
Brecon—Borough of	A1
Breconshire, County of ...	‡A2
Brent Knoll	A2
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A1
Bridgnorth MB	A1
Bridgnorth RD	A2
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A2
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A2
Buckingham	A2
Buckley	A
Bungay	A2
Burnham-on-Crouch	A2
Burnham-on-Sea	A2
Burnley	A
Burton-on-Trent C.B.	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A2
Caernarvonshire, Cnty. of	‡A2
Calder Valley	A
Camberley District	A2
Cambridge	A
Cannock UD	A
Canterbury	A2
Cardiff	A
Cardiganshire, County of	‡A2
Carlisle	A



Domestic lighting

*

Agricultural power and light

*

Powering small portable tools

*

Building site and caravan lighting

*

Mobile traffic signals

*

Battery charging

*

Underground maintenance work

NEWAGE GROUP

The symbol of the Newage group is the hall-mark of first-class engineering

portable power units

Alco "500" and "750" Generating Sets are supplying electricity for many purposes and in most parts of the world. Light for houses, farms, caravans and building sites; light and power for a wide range of industrial and technical uses. Of the four models in the series, the one illustrated is Type No. V501—a 500 watt A.C. set that has proved eminently suitable for the powering of small portable tools. It comprises a Stamford A6 alternator driven by a Villiers Mark 10 engine with a fuel consumption of only 1 gallon every 7 hours. The V501 can be supplied to give either 110 volt or 230 volt, 50 cycle output. Robust, portable, inexpensive and economical, it is another fine example of Newage engineering.

Also available: *Type No. J500 — 500 Watt D.C.*
Type No. V751 — 750 Watt A.C.
Type No. V750 — 750 Watt D.C.

For further details or technical advice on proposed applications, please write to:

Arthur Lyon & Co. (Engineers) Ltd.
6 Carlos Place,
Grosvenor Square, W.1.

PROTECTION?

There are ways and means of protecting most things, but when it comes to paintwork it pays to remember that paints based on Titanium Oxide are renowned for outstanding durability. These modern paints stand up to sun, rain and frost and they are unaffected by the sulphurous fumes of the industrial areas. Paints containing Titanium Oxide combine covering power and brightness with durability and high gloss.

Issued in the interest of better paintwork by

BRITISH TITAN PRODUCTS COMPANY LIMITED
COPPERGATE
YORK

TITANIUM PIGMENTS

Factories at Grimsby and Billingham and at Burnie, Tasmania. Agents in most principal countries.

CURRENT RATES OF WAGES—Continued

Town.	Grade.
Carlton UD	A
Carmarthen—Borough of	A1
Carmarthenshire, Cnty of	‡A2
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A2
Charmy Down	A
Chatham District	A
Chatteris	A2
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A1
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A2
Chipping Norton	A2
Chipping Sodbury	A2
Chippenham (inc. Chippenham Within and Hardenhuish)	A2
Cirencester	A2
Chorley	A
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A1
Congleton	A1
Consett UD	A
Conway	A1
Corby UD	A
Cornwall, County of	‡A2
Corsham District	A
Coventry CB	A
Cranbrook	A2
Cranleigh	A2
Cranwell Aerodrome Site	A1
Crawley	A1
Crewe	A
Crewkerne	A2
Cromer	A1
Crook and Willington UD	A
Crowborough	A2
Cuckfield	A2
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A2
Darwen	A
Daventry MB	A2
Deal	A2
Denbigh Town	A2
Derby CB	A
Devizes	A2
Devon, County of	‡A2
Dewsbury CB	A
Didcot	A2
Diss	A2
Doncaster CB	A
Dorchester	A2
Dorking	A
Dorset, County of (excepting Poole, Swanage and Wimborne A1)	A2
Dover	A2
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A2
East Kesteven RD	A2
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A2
Ely	A2
Epping	A
Evesham MB	A2
Exeter	A
Exmouth	A2
Fakenham	A2
Falmouth	A2
Fareham	A
Faversham	A2
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A2
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A2
Gillingham (Kent)	A1
Glastonbury & Street	A2
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A2
Godalming	A2
Goole, MB	A
Goole RD (part—Airmyn, Hook)	A
Gosport	A
Grantham MB	A
Gravesend	A
Grays Thurrock UD Area	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A
Guildford District	A2
Halesowen MB	A
Halifax CB	A
Halstead	A2
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A2
Harwich	A
Haslemere	A2
Hastings	A2
Hatfield (Herts)	A
Havant	A
Haywards Heath	A2
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A2
Hereford	A2
Herefordshire, Cnty. of	‡A2
Herne Bay	A2
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A2
Horncastle UD	A2
Horsham	A2
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A2
Huntingdon (Staffs)	A
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A2
Isle of Thanet	A2
Isle of Wight	A2
Ilfracombe	A2
Jarrow B	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A2
Leominster	A2
Letchworth	A
Lewes	A2
Lichfield MB	A
Lincoln CB	A
Liskeard	A2
Littlehampton	A2
Liverpool	*
Llandudno	A1
Llanelly (incl. Llanelly RD)	A
Llanfairfechan	A2
Llangollen	A2
London	*
Long Eaton	A
Looe	A2
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A2
Ludlow MB	A2
Ludlow RD	A2
Luton	A
Lyme Regis	A2
Lyneham (Devon)	A2
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A2
Malvern UD	A1
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A2
Margate	A2
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A2
Martock	A2
Maryport	A
Matlock UD	A
Melksham	A2
Melton Mowbray UD	A1
Merionethshire	A2
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A2
Milford Haven UD	A1
Minehead	A2
Monmouth—Borough of	A1
Monmouthshire	A1
Morecambe	A
Moreton Valence	A2
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A2
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A2
Newcastle-on-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A2
Newquay	A2
Newton Abbot	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A2
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A2
Oakham UD	A2
Okehampton	A2
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A2
Oundle UD	A2
Oxford	A
Oxted	A1
Padstow	A2
Paignton	A1
Par	A2
Pembrokeshire (except Milford Haven)	A2
Penmaenmawr	A2
Penrith UD	A1
Penzance	A2
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A2
Pickering	A2
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A2
Pudsey MB	A
Pulborough	A2
Radnorshire, County of	‡A2
Ramsgate	A2
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks)	A
Ripon MB	A2
Rochdale	A
Rochester	A1
Ross-on-Wye	A2
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A2
St. Albans	A
St. Austell	A2
St. Helens	A
St. Neots	A2
Salisbury City	A2
Salisbury Plain	A2
Sandy	A2
Sawbridgeworth	A
Saxmundham	A2
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A2
Selby UD	A
Sevenoaks	A
Shaftesbury	A2
Sheerness	A2
Sheffield MB	A
Shepton Mallet	A2
Sherborne	A2
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A2
Skegness UD	A1
Skipton UD	A
Sleaford UD	A1
Slough, Windsor & Eton District	A
Smethwick CB	†A
Snettisham	A2
Solihull UD	A
Somerset, County of	‡A2
Southampton and Eastleigh	A
Southend-on-Sea Dist.	A
Southport	A
South Shields CB	A
Southwold	A2
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A1
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stourport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A2
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A2
Tavistock	A2
Tenterden	A2
Teignmouth	A2
Tewkesbury	A1
Thames Haven	A
Thetford	A2
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC Area	A
" North of to Billericay	A
Tilbury	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A2
Trowbridge	A2
Truro	A2
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppingham (Salop)	A1
Uttoxeter RD	A2
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Wallsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A2
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A2
Wells (Norfolk)	A2
Wells (Somerset)	A2
Welwyn	A
Welwyn Gar. City	A
West Bromwich CB	A
Westbury	A2
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland (except Kendal)	A2
Weston-super-Mare	A1
Weybridge	A
Weymouth (including Portland Bill, excluding Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable and District	A2
Wickford	A
Widnes	A
Wigan	A
Wigton	A2
Wilmslow	A
Wilts. County of	‡A2
Wimborne	A1
Wincanton	A2
Winchester	A1
Windermere	A2
Wisbech	A2
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A2
Wolverhampton CB	A
Wolverton District	A2
Woodbridge	A2
Woodhall Spa UD	A
Woodstock	A2
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A2
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A2
Yate	A2
Yeovil Borough	A1
York CB	A
Ystalyfera	A

For Birkenhead, Liverpool and London the rates are:—Craftsmen, 4s. 5d.; Labourers, 3s. 10½d. In the case of London the rate beyond the 12-mile radius is: Craftsmen, 4s. 4½d.; Labourers, 3s. 10d. †Plus 2d. per working day. ‡This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops, receive 2d. per day; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 3s. 5d. per hour. Women engaged on work other than craft processes, 3s. 1d. per hour.

For Building Trade Wages in Scotland see page 299.

TOWN PLANNING DECISIONS

The Lights of Piccadilly: Minister's Attitude to Illuminated Signs

MR. DUNCAN SANDYS, Minister of Housing and Local Government, has told a firm of neon sign manufacturers that, although he considers that illuminated signs are not out of place on the eastern section of the façade of the Criterion building in Piccadilly Circus, he is not prepared to approve the use of sites there for signs of an unspecified nature. It is open to the firm to make a fresh application specifying the particular advertisements they wish to display.

Claude - General Neon Lights, Ltd., had appealed to the Minister against the refusal of the Westminster City Council to approve two sites on this building for illuminated advertisements. The appeal was the subject of a public inquiry on May 15 last.

A letter to the appellants' solicitor announcing the Minister's decision says: "He accepts your clients' contention that the sites under appeal are within an area which is already dominated by illuminated advertising and has come to the conclusion that illuminated advertisements on these sites would not be out of place. For reasons of amenity, however, it is not the practice to give general approval for illuminated advertisements of an unspecified nature, and the Minister does not feel able to approve an application in the terms set out by your clients on the form of appeal. He accordingly feels obliged to dismiss the appeal."

Light Industry in Green Belt Allowed in Exceptional Circumstances"

AN appeal against the refusal of the Essex County Council to permit the continued use of the mansion at Ford Place, South Ockendon, for light industrial purposes, has been considered by the Minister of Housing and Local Government. The grounds of the Council's refusal were that the property was situated within the metropolitan green belt and its use for industrial purposes would be inappropriate.

On behalf of the Council it was stated that (1) the Minister had said that, except in very special circumstances, permission should not be given for the change of use of buildings in a green belt for purposes other than those appropriate to a rural area; (2) the use of this house, of architectural and historic interest, for light industry was inappropriate; (3) sites for industry and small factory buildings were available on the LCC estate close by; and (4) the best use of the house might be conversion into flats.

The Minister, in the course of his decision, says he agrees with the Council that, in general, new industry should not be permitted in the green belt, but he has come to the conclusion that the circumstances of the present application are exceptional. Ford Place has failed to find a purchaser or tenant either as a dwelling solely or for any kind of institutional use and its conversion to flats would involve more disturbance of the structure than has resulted from the appellant's occupation. The business carried out does not affect the appearance of the building, nor, in the Minister's view, is it detrimental to the amenity of the surroundings; on the contrary, it appears to have the advantage of providing employment without increasing the demand for housing and of enabling an interesting old building to be satisfactorily maintained.

He considers, however, that in the event of a change of tenant, the local planning authority should have the opportunity to review any proposals for the use of Ford Place, other than use solely as a dwelling-house, that might be made by another occupier. He has accordingly decided to allow the appeal to the extent that he grants permission for the use of the ground floor of Ford Place as a light industrial building as defined by the Town and Country Planning (Use Classes) Order, 1950, such permission to operate for the benefit of the present occupier only, and permission is hereby granted for the resumption, on the discontinuance of such use, of the use of the whole of Ford Place as a private residence.

Tree on Building Site: Minister Overrules Council's Refusal to allow Bungalow

IN the course of a recent planning appeal by Mr. W. R. Hudson against the refusal of Esher UDC to permit the erection of a bungalow and garage on plot 48, Knowle Park Estate, Cobham, the question of the use of Tree Preservation Orders arose.

The appeal was decided by the Minister of Housing and Local Government on the written representations of the parties.

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Permission for the residential development of this estate was given in 1954, and a layout approved in January, 1955, subject to the condition that no trees should be felled without the Council's consent. On plot 48 there is a mature oak which, in the interests of amenity, the Council wish should remain, and they rejected the detailed plans for a bungalow on this plot because the tree would have to be felled if the bungalow were built in the position proposed. They contended that the condition was properly imposed on the permission for the layout of the estate and should be observed. There was ample room on the plot for the erection of a house without destroying the tree, and for this purpose they were prepared to relax the building line. Planting new trees on the edge of the site would not compensate for the loss of this forest oak, one of a number of similar trees which were an amenity feature of the estate.

For the appellant it was argued that if the Council wanted to preserve the tree they should do so by making a Tree Preservation Order and not merely by refusing, or imposing conditions on, permission as they had done. There was no room for a properly sited bungalow if the tree remained, because of the need to keep the buildings and house drains outside the area of root growth and avoid their being overhung by heavy branches. Such a large tree would be a danger to the property as a whole, especially during a storm.

The Minister states, in the course of his decision, that while he regards the condition imposed on the approval of the layout of this estate as inappropriate, he does not think the Council were precluded from taking account of the existence of the tree when considering the proposal to build on the appeal site, or from exercising control over the siting of the proposed building in order to avoid the automatic destruction of the tree, if they thought the circumstances justified that course. At the same time he is not satisfied that the tree is of so great a value that it would be reasonable to refuse permission for the proposed bungalow, or require it to be resited, having regard to the permission already granted and to the size of the tree and its awkward position on the appeal site. He has accordingly decided to allow the appeal and to grant permission for the erection of a bungalow and garage on the land in accordance with the submitted plans.

Condition Limiting Period of Conversion of House into Flats Discharged

PERMISSION to convert a dwelling-house at Crescent-road, Wimbledon, into four self-contained flats was recently granted by the Wimbledon Borough Council, subject to the condition that the works of conversion should be removed and the building reinstated at the expiration of a period terminating in June, 1970, and this condition, which was imposed on amenity grounds, was the subject of a subsequent appeal to the Minister of Housing and Local Government.

The Minister has allowed the appeal. He states that he is not satisfied that the prospects of this large and comparatively old house attracting further use as a single family dwelling after being converted for flats for

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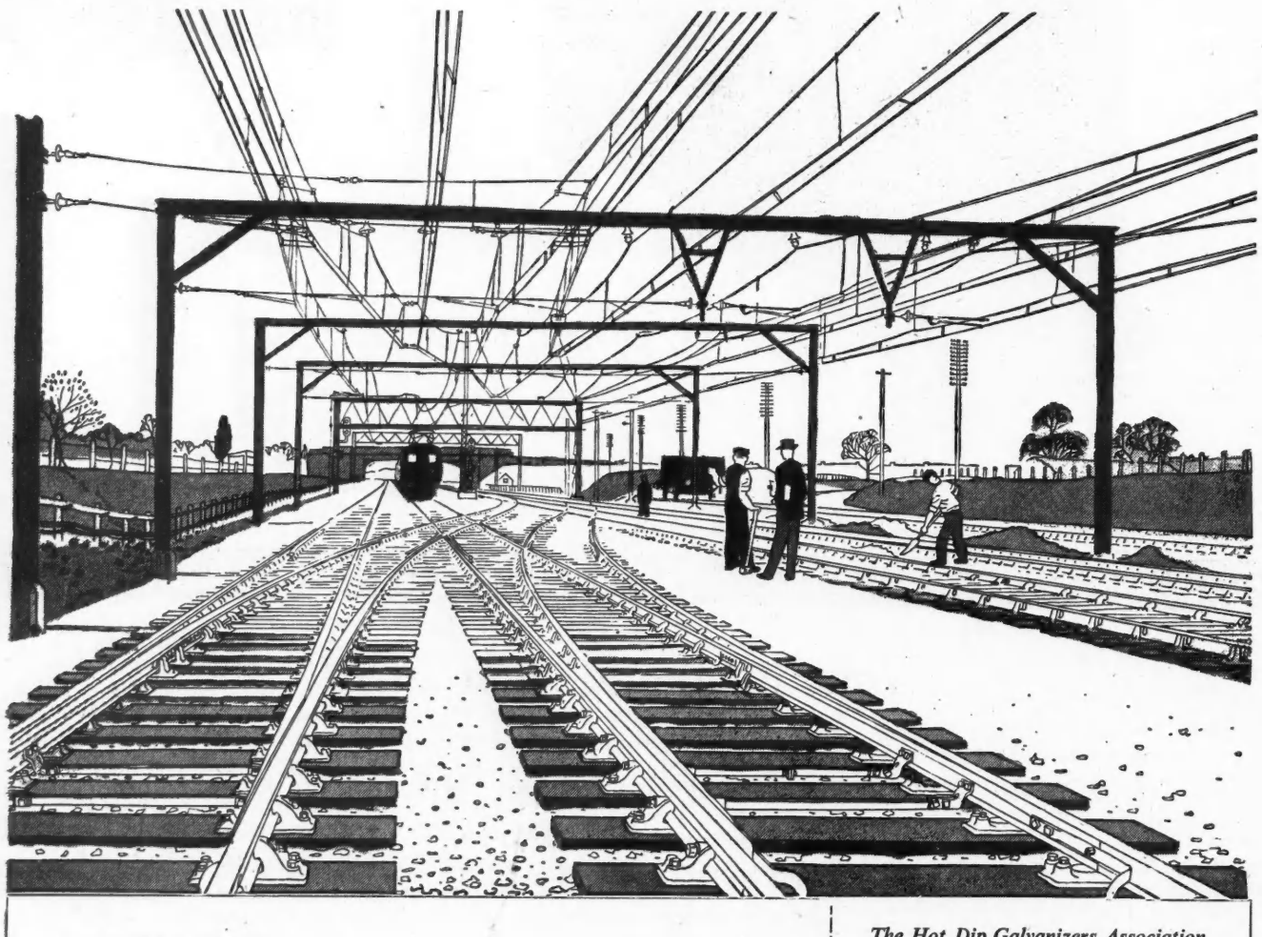

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15 years are such that a limitation of permission with this in view would be justified. Apart from this, however, he does not think its use for flats would have any noticeable effect on the character or amenities of this neighbourhood and he has come to the conclusion that the building is capable of division into four reasonably satisfactory flats.

He has examined the submitted drawings, and while he does not think the proposed lay-out is open to such serious criticism that permission should be refused, he would suggest that a more convenient arrangement of the first-floor flat would be obtained if part of what was proposed as the dining room for flat No. 2 were partitioned off as an entrance hall for that flat with four doors leading to the dining room, bathroom and bed-sitting-room and the landing on the main staircase respectively; the original entrance hall for flat No. 2 could then be enlarged slightly and used as an entrance hall for flat No. 3, with three doors leading to a bed-sitting-room dining room and landing respectively. He has accordingly decided to allow the appeal and to discharge the condition appealed against.

Minister Allows Council Houses in "Most Beautiful Village in England"

FINCHINGFIELD, one of the show villages during the Festival of Britain and described as possibly the most beautiful in England, is to have eight council houses built near its centre.

An appeal by Braintree Rural District Council against the refusal of the Essex County Council to permit the erection of the houses at Duck End, Finchingfield, has been allowed by the Ministry of Housing and Local Government.

The appeal was the subject of an inquiry held in February. On that occasion, Mr. W. Humphry, Clerk of Braintree RDC, stressed the immediate need for up to 12 dwellings in the village. Modern houses, he said, were essential to retain local workers and prevent the rising generation from moving elsewhere.

The planning authority, Essex County Council, had refused the application on the ground that "the erection of the houses would result in serious injury to the character of the village and its amenities."

Braintree RDC have now been told that the Minister has decided to allow the appeal and permit the erection of eight cottages. The letter giving the Minister's decision states: "While the Minister fully appreciates and shares the concern that no developments should be permitted which would spoil the beauty of the village, he has come to the conclusion that the proposals put forward on the Council's behalf are not open to any objection on that score. Indeed the good taste and harmonious character of the scheme are such that, if it is faithfully carried out in the right materials, it would add to the attractiveness of the village."

The letter adds: "The Minister has been impressed by the merits of the suggested layout and design shown in the preliminary sketches, and he would not approve the scheme if any less effective treatment of the details were in prospect. He therefore looks to the Council to follow this layout and design closely in producing and carrying out a more detailed scheme."

THE LOWEST TENDER

"Cost Benefit" Method of Calculation Advocated

THE "Monthly Bulletin" of the British Road Federation for August discusses in an editorial article the subject of the Lowest Tender.

"The golden rule of any transaction involving payment (states the article) is to obtain value for money. It is stating the obvious to say that it is not necessarily obtained by paying the lowest price, but in matters of road expenditure there is evidence that the central authority does not accept this truism as a working principle.

"Some months ago the matter was raised in Parliament and while the Minister of Transport said he was prepared to consider any special circumstances of a particular case, dissatisfaction has continued. The support of national bodies representing highway authorities is now being sought by two authorities for lodging an objection against the strictness with which the condition under which grants are issued is applied, that tenders for roadwork other than the lowest shall not be accepted.

"In the cost of all forms of roadwork there is more to be considered than merely the payments to be made for completing the work. In terms of the national economy any work being carried out which adversely affects, at least, commercial road traffic creates a further charge, the extra cost of operating the vehicles concerned. The fact that this extra item does not feature in any of the accounts relating to the roadwork itself does not make it any less real.

A Logical Approach

"A logical approach should be adopted in making decisions on this important sector of public expenditure. In order that the real cost to the community of any roadwork can be determined, a 'cost benefit' method of calculation should be applied. In this the cost of delays and diversions of traffic and any other relevant factors would be estimated and set against the increased cost incurred by carrying out the work as quickly as possible or as a result of adopting a higher standard of work (to reduce the need for attention) or both. A balance would be struck and any extra charge should be met by central and local authorities in the same proportion as for the remainder of the cost, that is, according to the classification of the road, since 'national' and local advantage could be considered to accrue in similar proportion.

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NEGOTIATED TENDERS

Hull Corporation's Decision

AT a recent meeting of Hull City Council, MISS ANNIE MAJOR moved an amendment to the housing committee minutes that the City Architect (Mr. A. Rankine) be instructed to negotiate with contractors for the erection of 113 houses. She also moved that consideration of the City Engineer's acceptance of housing contracts be deferred. ALD. ISAAC ROBINSON, the chairman of the housing committee, accepted the amendment and said that what it suggested was already being done.

MISS MAJOR said: "The housing problem at Hull is serious and should be No. 1 priority so far as building is concerned." The council was informed that the City Engineer's Department had no available labour to proceed with work it already had in hand.

Stating that they were not even keeping step with the applications, Miss Major said Hull had a waiting-list of more than 15,000 applicants for corporation houses and this was an increase on last month. In addition, each month more and more houses became unfit for human habitation and had to be demolished. Their job was to speed up, not hold up, the building of houses, said Miss Major, who added: "We have undertaken a slum-clearance programme to deal with 3,200 houses before 1960."

TENDERING WITHOUT BILLS OF QUANTITY

County Councils Want Cost Limit Raised

A CHANGE in the National Federation of Building Trades Employers' rule that members should not tender in competition for building works of more than £3,000 in total value without bills of quantities being supplied is being sought by the County Councils' Association.

This follows a report from Kent County Council pointing to the fact that this rule has been continued notwithstanding the substantial increases in building costs.

The rule excepts the construction of single-dwelling houses having a maximum floor area of 1,500 feet super.

The County Councils' Association is asking the National Federation to increase the figure of £3,000 "to an extent commensurate with the increased cost of labour and materials."

OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA. — Hilton Hotels International, USA, plans to build a hotel in Sydney at a cost of about £A3m. The vice-president of the company, Mr. Dean Carpenter, is now in Australia to make final plans. He re-affirmed that the Hilton chain proposed hotels in Australian capitals. The first one, in Sydney, would contain about 400 rooms plus a banquet hall, meeting rooms, restaurants, etc.

* *CEYLON.* — The Government has approved the establishment of a new National Planning Board to consider and advise on development projects in both public and private sectors of industry. The Prime Minister will be the Chairman and the Minister of Finance deputy Chairman. . . . In connection with the Government's decision to proceed with the next stage of the Laxapana Hydro-Electric Scheme, involving an estimated expenditure of Rs.153 million, an application is to be made to the International Bank for Reconstruction and Development for a loan of Rs.92 million towards the cost. (Ref.: CRE/2908/56; tel.: Trafalgar 8855, Ext. 2300.)

GOLD COAST.—The building of the new University of the Gold Coast at Legon, near Achimota, is proceeding rapidly. A contract for a further section, consisting of a main library, a block of two and three storeys and two other blocks to house the departments of Chemistry and Physics, in addition to some smaller ancillary buildings, has just been placed with Taylor Woodrow (Gold Coast), Ltd. The estimated cost of this part of the work is £1 million and it is understood that work will start next month and take about two and a half years.

The Registrar of the College, Mr. M. Dowuona, has stated that the College Council hopes to place further contracts for buildings to house the Botany and Zoology departments and a department of Agriculture during the next few months. The architects for the College are Messrs. Harrison Barnes and Hubbard, FF/ARIBA, 2 Lord North-street, SW1, and the quantity surveyors are Messrs. Reynolds and Young, 239 High Holborn, WC1.

IRAQ.—The following tenders have been invited; the Dibis housing scheme for 163 houses; civil engineering works for the Dibis power station; the Malha water supply scheme; the Saddat al Hindiya water supply scheme; the Tuwairij water supply scheme; and the Nasiriyah water supply augmentation scheme. Tenders have been invited by the Development Board and the Directorate General of Municipalities.

The Grain Board is to build silos at Mosul, Hilla and Erbil. Swedish and Swiss firms are known to be interested in these projects. An American firm has been appointed by the Development Board as consultants for road construction. They are to be responsible for drawing up specifications and supervision of construction.

The Estate Mortgage Bank is to erect a new building at a cost of about £200,000.

The following road surveys are in hand for the Development Board, and it is expected that calls for tender will be issued over the next six months: Karbala/Najaf (75 kilometres); Diwaniyah/Najah (75 kilometres); Diwaniyah/Samawa (90 kilometres); Kut/Amara (90 kilometres); Dujaila/Hay (30 kilometres).

Iraq is to launch out on the construction of a number of attractive holiday resorts in an effort to keep holidaying Iraqis at home. To further this end an Administration for Summer Resorts and Tourism has been constituted. It will be responsible, subject to Development Board approval, for particular projects in the northern part of the country to begin with. The work will come under the six-years Development Programme.

The Development Board have agreed in principle to build a modern hotel in Bagdad. Negotiations are being carried out with an American company and further negotiations are expected next month.

Development Board technicians are to prepare specifications for a plant for the extraction of sulphur from natural gas at Kirkuk. A production of 275 metric tons a day is planned. It is understood that outside consultants will not be engaged for this project.

The Development Board has agreed to lend the Lord Mayor's Office funds for municipal improvements in Bagdad. Funds are also to be asked for to purchase land for the new conclave of Government offices which is planned on the west side of the river.

ITALY.—The Ministry of Public Works is to seek Parliamentary approval for the expenditure of a further 10 milliard lire on constructional work at the new Rome International Airport at Fiumicino in addition to the 18 milliard lire already voted for this purpose.

* From the Board of Trade Special Register Information Service. The telephone number and extension at the end of the paragraphs relate to the department of the Export Service Branch, Lacon House, Theobalds-road, WC1, where further information can be obtained.

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OVERSEAS CONTRACTS OPEN

**AUSTRALIA*: Portland Harbour Trust calls for tenders for the cargo wharf, transit shed and dredging for the harbour. It will construct the breakwaters, railways and roads with its own forces. Closing date: October 31. (ESB/18781/56; Tel.: Chancery 4411, ext 738 or 771.)

**HYDERABAD, DECCAN:* The Chief Engineer, Barkaputa, Hyderabad, is calling for tenders for power shovels, draglines, dumpers, cranes, air compressors, tractors and drills for use on the construction of the Nagarjunasagar Dam. Closing date is August 30. (ESB/20071/56; Tel.: Chancery 4411, ext. 738 or 771).

**SOUTH AFRICA*: The Tender Board, South Africa Railways, PO Box 7784, Johannesburg, call for tenders by August 31 for ten concrete mixers of wet batch capacity of not less than 4½ cu. yds. and suitable for mounting on railway truck floor or motor vehicle. (ESB/19778/56; Tel.: Chancery 4411, ext. 738 or 771.)

TRADE WITH RUSSIA

Further Details of Soviet Purchasing Programme

DURING his recent visit to this country Mr. V. A. Malyshev, Deputy Chairman of the Council of Ministers of the USSR, gave further details of the machinery, equipment and ships which, during their visit to London, Mr. Bulganin and Mr. Krushchev had said the Soviet Union could purchase in the United Kingdom during the next five years. In the light of Mr. Malyshev's additional information it has now been possible to divide the list into two categories—goods which may be exported, subject in some cases to quantitative restrictions and goods subject to embargo. Following are extracts from the list, which is published in full in *The Board of Trade Journal* of August 11:

I. NON-EMBARGOED GOODS.

Woodworking machinery; complete equipment for the manufacture of concrete pipes by the centrifugal method; pump and compressor equipment; laboratory equipment; universal milling machines for manufacturing patterns out of non-ferrous metals and light alloys, *except* profiling machines; exhaust blowing arrangements (steam exhausters and fans) with a capacity from 100,000 up to 210,000 c.m.p.h., 250-750 mm. W.G.; exhaust blowing arrangements (steam exhausters and fans) with a capacity from 210,000 up to 600,000 c.m.p.h., 250-750 mm. W.G., *except* those capable of an overall compression ratio of 2:1 or more; equipment for the paper industry, including equipment for producing wallpaper; complete equipment for producing: (a) sand cement tiles, (b) pressure reinforced concrete tubes with a diameter of 300-2,000 mm., (c) asbestos cement plates for flooring, (d) hollow reinforced pylons, (e) pre-stressed reservoirs, (f) thermosite and ceremsite; complete plant for producing home and industrial installations for air conditioning with an output of 3,000 units per year; installations for air conditioning of the flat and cabinet type with a capacity of 1,500-30,000 c.c. per hour; iron and steel rolled products as follows: structural cold-rolled sheet, thin plates of the ordinary trade quality, malleable cold-rolled sheet, light-section steel (circular-section, oblique-section, etc.), welded tubes with 720 mm. diameter (*except* welded or seamless drill pipe conforming with American Petroleum Institute specifications for oil country tubular products).

II. EMBARGOED GOODS.

Horizontal four- and six-spindle automatic lathes; vacuum electric furnaces for smelting ferrous metals (steel) with a vacuum of 10^{-4} – 10^{-5} mm. of mercury.

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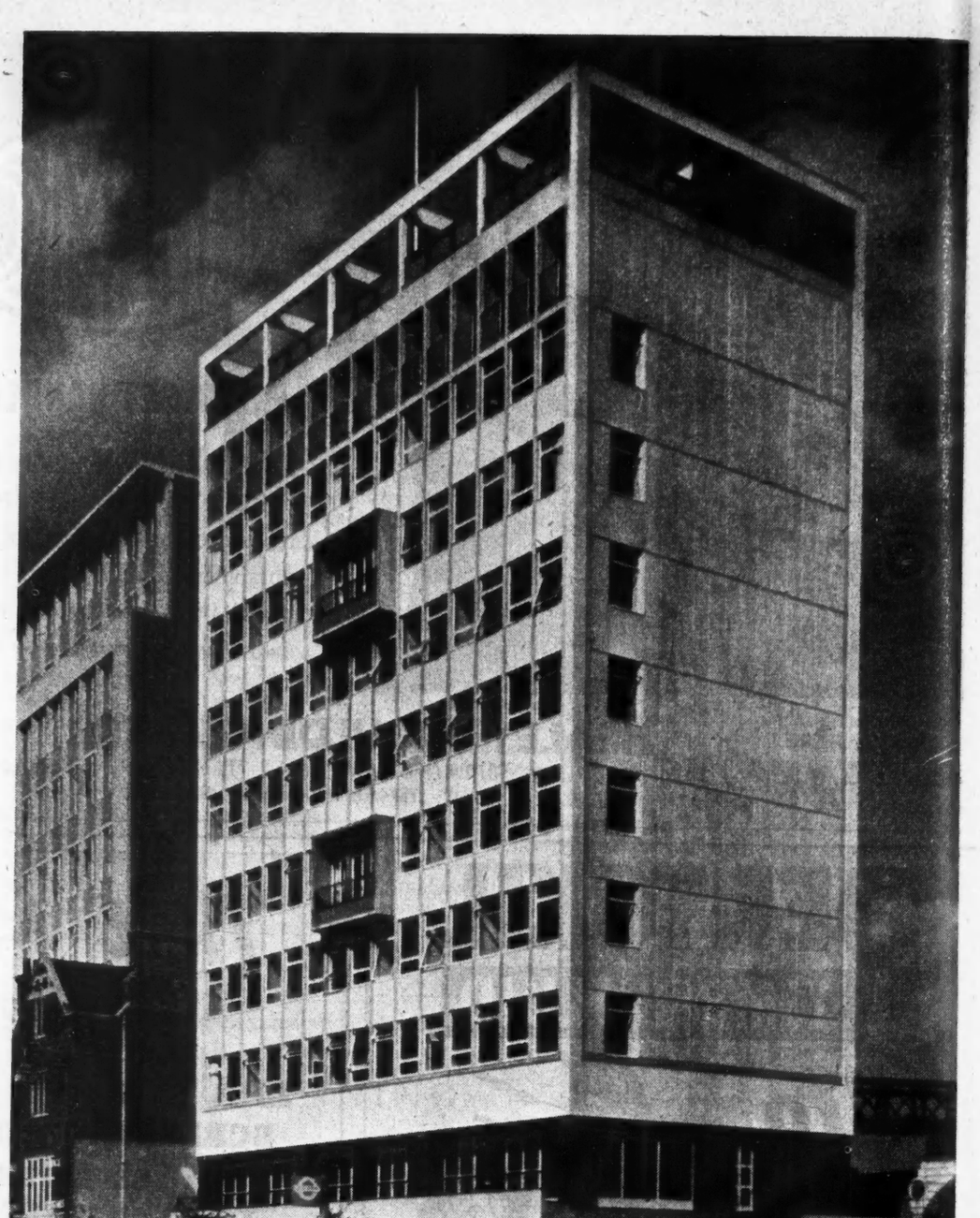

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EX8

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The SCOTTISH BUILDER

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from April 16, 1956. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen 4s. 3½d.; Labourers 3s. 9d.

For apprentices, the rates are:

Year	Percentage of Craftsman's rate.	For week of 44 hours. s.	d.
1st	25	47	2½
2nd	33⅓	62	11½
3rd	50	94	5
4th	66⅔	125	10½
5th	75	141	7½

For female labour, the rates are:

	s.	d.
Operatives on craft operations (at end of probationary period)	3	9
Operatives on labouring operations (at end of probationary period)	3	5½

NEW BUILDINGS

Dumbarton.—Plans in hand for scheme of 78 two- and three-apartment houses at Castlegreen housing development site. A: W. Wilson, Municipal Buildings, Dumbarton.

Dundee.—Plans to be prepared by own A. for new buildings for Bonar, Long and Co., Ltd., as extension to their factory at East Kingsway Works.

Fifeshire.—Plans approved for Glenrothes Development Corporation's scheme of 160 houses for which schedules are in hand. A: Peter Tinto (A), AMTPI, Development Corporation's Offices, Glenrothes.

Glasgow.—Plans prepared for alterations and additions, etc., for John Smith and Son (Glasgow), Ltd., at St. Vincent-st. A: Joseph Wilson (A), 200, St. Vincent-st., Glasgow, C2.

Glasgow.—Plans prepared for John Pointer, Sons, and Macdonald, Ltd., Biggar-st., and Inchgreen, Greenock, for new buildings at Biggar-st. Hugh Fraser and Ptnrs., Civil Engineers, 3, Blairbeth-terr., Stonelaw-rd., Rutherglen.

Glasgow.—Plans prepared for The Gourock Ropework Co., Ltd., Helen-st., and Port Glasgow, for new buildings at Govan. Civil Engineers: Crouch and Hogg, 15, Woodside-cres., Woodlands-rd., Charing Cross, Glasgow, C2.

Glasgow.—Plans prepared for Church of Scotland General Trustees, George-st., Edinburgh, for new Parish Church buildings at Priesthill-rd. A: Sidney W. Birnage (F), 44, Union-st., Stonehouse, Lanarkshire.

Glasgow.—Plans prepared by their own Architects are being considered by Corporation for conversion and additions to Newhall Parish Church, for new Bridgeton factory works for John Kay and Graham and Co., Ltd., 270, Main-st., Glasgow, EC2.

Glasgow.—Sketch plans have been prepared and approved by Housing Sub-Committee of Corporation for 998 dwellings at Easterhouse Township, Provanhall Unit, consisting of 756 flats of three apartments, 174, of four, and 18 of five apartments, and 50 single houses for old persons. A: Archibald G. Jury (F), 20, Trongate, C1.

Glasgow.—Plans prepared for alterations and additions, etc., for Halifax Building Soc., Ltd., at St. Vincent-st. A: Wilson, Hamilton and Wilson (A), 5, Woodside-terr., Glasgow, C3.

Greenock.—New scheme of 150 houses at North-West Larkfield housing development site. A: J. Austen Bent (A), 15, Palmerston-pl., Westend, Edinburgh.

Greenock.—Plans in hand for 18 four-apartment cottages at triangular site at Bow-rd., Buchanan-st., and Grieve-rd., E&S and Planning Officer: Robert L. Rankin, AMICE. Municipal Buildings, Hamilton-st., Greenock.

Hamilton.—Plans prepared for scheme of 80 houses est. to cost £72,750, at Burnblea housing development site and at Edward-st. Council A: George Allan (A), Municipal Buildings, Cadzow-st., Hamilton West.

Lanarkshire.—Plans to be prepared for Archidioceses of Motherwell, for new Catholic church at Yett Farm housing development site. Newarthill. A: Lockhart Hutson (F), Cullen, Lochhead and Brown, 119, Cadzow-st., Hamilton West.

Lanarkshire.—Sketch plans approved by Scottish Department of Education, Edinburgh, for new RC sec. school est. to cost £206,811 at Udston housing development site, Hamilton. Coun. A: William R. Watt, FRIAS, Motherwell.

Lanarkshire.—Plans prepared for new factory building at East Kilbride estate for Development Corporation. A: Frank Scott (L), Torrance-hse., East Kilbride.

Lanarkshire.—Plans prepared for South of Scotland Electricity Board (Lanarkshire Area) for new station at Newmains site. Engr.: William Macrobbie, MInstCE, 127, Almada-st., Hamilton West.

Lanarkshire.—Plans prepared for Blantyre Engineering Co., Ltd., for extensions and additions to their Blantyre Engineering Works at Forrest-st. A: Gavin, Paterson and Son (F), 6, Cadzow-st., Hamilton.

Lanarkshire.—Plans prepared for First District Council for additions and alterations, etc., to Carmichael Halls. A: James J. Shannon (A), Firholm, Boghall-av., Biggar.

Shotts.—Plans prepared for Lanarkshire County scheme of 26 houses at Hall-rd. development site. A: Samuel MacColl (F), 23, Beckford-st., Hamilton.

Thurso.—Plans in hand for scheme of 92 houses est. to cost £113,500. Council A., Municipal Offices, Thurso.

The Builder FUTURE CONSTRUCTION

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list see previous issues. Those with an asterisk are advertised in this number. The dates at the heads of paragraphs are those for the submission of tenders; a dagger (†) denotes closing date for applications; the name and address at the end refer to the person from whom particulars may be obtained.

BUILDING

AUGUST 21.

***†Oxford City C.**—(a) 3 shops with maisonettes over at the Oval, Rose Hill estate; (b) 12 flats and 5 garages at junction Banbury-rd./Wentworth-rd.; (c) 3 houses at Boswell-rd., Cowley. E. G. Chandler (A). City A and Planning Officer.

AUGUST 22.

***†East Suffolk CC.**—Pair of police houses, Yarmouth-rd., Lowestoft. E. J. Symcox (F), County A, Ipswich. Dep. £2 2s. Tenders by September 14.

AUGUST 23.

***†Surrey CC.**—Extension, Hatfield school. Merton. County A, Kingston.

AUGUST 27.

***†Essex CC.**—Additions, Yardley-la. county primary school, Chingford. H. Conolly (F), County A, Chelmsford.

AUGUST 29.

***†Durham CC.**—Additional sanitary accommodation, Hartlepool Henry Smith school, and lavatory additions, etc., Seaham girls' grammar school. County A, Durham.

AUGUST 30

***Glasgow Corporation.**—36 flats for aged persons, Summertown-rd., Govan. Architectural and Planning Dept., 20, Trongate.

AUGUST 31

***†East Suffolk CC.**—Extensions to Felixstowe grammar school. E. J. Symcox (F), County A, Ipswich. Tenders by Oct. 2.

†Newcastle Regional Hospital Board.—First major phase of construction of new West Cumberland hospital (96 beds) and nurses' and medical staff quarters, etc., for ultimate 440-bed hospital. Regional A, Benfield-rd., Newcastle upon Tyne.

SEPTEMBER 1

***†Hertford RDC.**—8 bungalows at Tewin and 6 houses and 4 bungalows at Datchworth. E. A. Williams, clerk, Wallfields, Pegs-la. Dep. £3.

SEPTEMBER 3.

Long Eaton UDC.—132 houses and 42 bungalows at Draycott-rd., Sawley. E&S. Dep. £5 5s.

SEPTEMBER 5.

***Wandsworth BC.**—38 dwellings at Clarence-ave., Clapham, SW4. Boro' E&A.

SEPTEMBER 6

***Preston CBC.**—Gardener's house, Larches Hostel, Larches-la. Boro' E&S. Dep. £2 2s.

SEPTEMBER 7.

***Reading CBC.**—24 maisonettes at Coley-pl. Boro' A. Dep. £2 2s.

SEPTEMBER 8

St. Austell UDC.—20 traditional houses at Eastbourne housing site and 6 traditional bungalows at Poltair housing site. E&S. Dep. £2 2s.

SEPTEMBER 10

***Atherstone RDC.**—Alterations and extensions to Council Offices. D. C. Smith, E&S. Dep. £3 3s.

***Basingstoke BC.**—112 dwellings, St. Peter's-rd. E. Almond (A), Boro' A. Dep. £2 2s.

***Cuckfield RDC.**—42 flats at Hassocks A. Hutchings, E&S. Dep. £2 2s.

***Lincoln (Kesteven) CC.**—New entrance and drives, etc., Heckington Manor Old People's Home. County A, Sleaford.

***Newbury BC.**—40 aged persons' bungalows. Shaw. Boro' S & Water E.

SEPTEMBER 11

***Newmarket UDC.**—28 houses, St. Wendred's-way, Exning. P. D. Lees, A. Council Offices. Dep. £2 2s.

SEPTEMBER 12

***Harrow BC.**—Supply and erection of fencing at Berridge housing estate, Edgware, BE&S. Dep. £2.

***Inverness Northern Fire Area Jt. Comm.**—New central fire station, Longman, Inverness. J. Blackburn (F), Burgh A, 11, High-st., Inverness.

***Rochdale CBC.**—New St. Peter's CofE school, Kingsway. Grenfell, Baines & Hargreaves, architects, 12/24, Guildhall-st., Preston. Dep. £2 2s.

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***Southend-on-Sea CB.**—195 dwellings at site No. 15, Blyth-ave., Shoeburyness. Boro' A, 30, Alexandra-st. Dep. £2.

SEPTEMBER 13.

***Flint BC.**—26 houses, Bron Haul, Bagillt. Boro' E&S. Dep. £2 2s.

SEPTEMBER 14.

***Macclesfield BC.**—Conversion of old decontamination centre, Hurdsfield House, into bed/sitting-room flat. Boro' A, 3, Jordangate.

SEPTEMBER 15

***Brighouse BC.**—2 bungalows, 16 flats and 43 houses in four contracts. H. A. Sneezum, Boro' E&S, Commercial-st.

SEPTEMBER 20

***Preston CBC.**—Erection of Brookfield county prim. sch. Boro' E&S. Dep. £2 2s.

OCTOBER 1.

***States of Guernsey.**—New school, Beaucamp, Castel. States E, Albert Pier. Dep. £3 3s.

OCTOBER 8.

***Board of Governors, Royal National Throat, Nose and Ear Hospital, Gray's Inn-rd., WC1.**—Alterations. Secretary.

PAINTING, MATERIALS, ETC.

SEPTEMBER 1

Cambridge City C.—Road and other materials. City E&S.

***†Hampshire CC.**—Supply and installation of automatic internal telephone system at County Offices, Castle-av., Castle Hill and Upper High-st. Clerk, Winchester. Dep. £2 2s.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

AUGUST 22

Carlton UDC.—Tenders for making up parts of Rosslyn-ave., St. Michael's-ave., St. Mary's-ave. and Dale-rd. E&S. Dep. £2.

AUGUST 28

Derbyshire CC.—One-third mile 33 ft. carriageway on Nottingham/Derby/Stoke-on-Trent road at Hilton Bends. County S. Dep. £5 5s.

AUGUST 30

***†Crawley Development Corporation.**—Extensions, sewage treatment works, Radford-rd., Tinsley Green. Chief A, Broadfield.

Malvern UDC.—1,500 lin. yd. 6 in. dia. foul and SW sewers, 2,900 sq. yd. carriageway and other works at Pickersleigh-rd. housing site. S&WE. Dep. £2 2s.

AUGUST 31

East Dean RDC.—1½ miles 3 in. and 4 in. dia. spun-iron main, etc., at Blaisdon, Glos. Lemon & Blizard, ccl.'s constg. engrs., Castle-la., Southampton.

Maidenhead BC.—Making-up of 200 yd. of Bridle-rd. Boro' E&S. Dep. £2.

***Rhondda BC.**—Road and sewer works, Mount Libanus housing site, Treherbert. C. Gingell (A), Boro' Housing A, 13, Ystrad-rd., Pentre. Dep. £3 3s.

SEPTEMBER 3

Chesterfield RDC.—4½ miles sewers and rising mains, three pumping stations, sewage disposal works, etc., Northern Area. J. B. Wikeley, MEng. AMICE. MIMunE, Ccl's engr.

East Devon Water Board.—Following works at Farway and Farway Street: (1) booster house, (2) 1,250 yd. 3 in. dia. asbestos-cement water mains. (3) pressed-steel water tank, etc. Rofe & Raffety, constg. engrs., 3, Victoria-st., SW1. Dep. £2 2s.

SEPTEMBER 6

Hemel Hempstead Development Corpn.—1,300 yd. 60 ft. wide classified road in cut and fill from Highfield-la. railway bridge to High Street Green. Ch. Engr., Westbrook Hay.

SEPTEMBER 10

Lancs CC.—Widening and reconstruction and road improvement of (1) Ledson's canal bridge at Melling, (2) Fleetwoods canal bridge at Sefton. County S. Dep. £2 each contract.

Nidderdale RDC.—2,500 lin. yd. 6 in. sewers and rising main, ejector station, etc., at Killinghall and Hampsthwaite. W. K. Rodwell, AMICE, Ccl.'s constg. engr., 40, North-st., Wetherby, Yorks. Dep. £2 2s.

SEPTEMBER 17

Sunbury-on-Thames UDC.—Sewering and making up of Goffs-rd., Fairholme estate, Ashford Common (350 yd. approx.). Ccl.'s E&S.

NO DATE.

***N.E. Metropolitan Regional Hospital Board.**—New roads, etc., South Ockenden hospital. Regional A, 3, Queen Anne-st., W1.

GENERAL BUILDING WORK

(LONDON)

Kensington. — SCOUT HEADQUARTERS. — A seven-storey building with basement garage is planned for erection on a bombed site, 9,728 ft. in area, at the corner of Queen's-gate and Cromwell-rd., SW7, as national headquarters of the Boy Scouts. The building will serve as a memorial to the late Lord Baden-Powell and will house the "B-P" museum as well as providing dormitory accommodation for visiting scouts, a club, library, assembly hall and committee rooms. £183,000 has already been contributed by Scouts, and next year, the centenary of "B-P's" birth, it is hoped to raise a further sum by public appeal.

Kensington. — AGED PERSONS' FLATS. — Tenders are being invited for 22 small flats for aged persons which are to be built at a temporary bungalow site at Clarendon-rd., W11. The Boro' E&S is H. Burleigh, AMICE, MIMunE, and quantity surveyors are A. S. Wilson & Ptnrs., 8, Storey's-gate, SW1.

Penge.—DWELLINGS.—The UDC is to submit an outline application to the CC for planning permission to build 26 housing units on small bombed or derelict sites at Risedale-rd., Selby-rd., Bourdon-rd. and Anerley Vale. The Council's Engr. and Surveyor is N. G. Wall, MIMunE.

St. Marylebone.—FLATS AND SHOPS.—An outline scheme for the completion of the Church-st. estate by the provision of some 50 additional flats and shops awaits the result of a public enquiry. Bridgwater & Sheppard (F), 42, Bruton-place, Berkeley-sq., W1, are architects for the scheme, and Crosher & James, 329, High Holborn, WC1, have been appointed quantity surveyors.

Sutton and Cheam.—FLATS.—An outline application for the erection on the site of a nursing home at 5/9, Mulgrave-rd., Sutton, of 24 flats has been approved by the TC. The developers, Bellingham Properties, Ltd., c/o Morgan, Baines & Blackford, opposite Sutton Station, propose to sell the flats leasehold. The architect is W. P. P. Grant, "Condover," Headley-rd., Epsom.

Woolwich.—HOUSES, FLATS AND MAISONETTES.—46 houses and flats are to be built at Sunbury-st., SE18, as part of the St. Mary's comprehensive redevelopment scheme. The Housing Com. has approved preliminary sketch plans for some 50 maisonettes at an adjacent site. The Boro' E&S is W. H. Ginson, OBE.

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(PROVINCIAL)

Ashington.—Site for proposed central workshops for NCB has been cleared. No contracts yet placed for building new workshops which are est. to cost £250,000, but work expected to start this year. Plans by NCB Architect's Dept., Benton, Newcastle.

Chesterfield.—EC appointed Wilcockson & Cutts, 12, Saltergate, Chesterfield, as A for conversion of rooms at Chesterfield sch. and provision of changing-rooms with stores and two practical rooms at Hasland Hall sch. Additional classrooms at Brambling House sch., £13,000 est.

Durham.—F. Iddison, 24, Skinnergate, Darlington, has been appointed QS by CC for alterations and additions to Dinsdale Park residential sch. County A, G. R. Clayton (F), to prepare detailed plans for new County Offices to cost about £1½ million.

Durham.—CC to build 25 family group homes. Cost £101,659. County A, South-st., Durham. Revised plans for new county hall of five or six blocks, to cost £1½ million, have been approved by CC.—RDC has approved building of 16 houses at Sherburn, to cost £20,131, and 12 houses at Pittington, to cost £18,371. Housing A, Byland Lodge, Durham.

Eccles.—BC approved plans:—1 and 2-storey building for retail premises at 614/616, Liverpool-rd. for H. Alder (A: E. E. Costello & Associates, 126, Broad-st., Salford); alterations at "Grapes" Hotel, Liverpool-rd., for Joseph Holt, Ltd. (A: Hacking & Newton, 54, Deansgate, Manchester); church hall at Worsley-rd. for Rev. Fr. Burke, New-la., Eccles (A: A. Farebrother, 99, Seymour-grove, Manchester)

Halesowen.—TC to invite tenders for 54 flats at Bath Meadow site, Cradley. Approved plans for rebuilding "Beehive Inn" at Hagley-rd. for Wolverhampton & Dudley Breweries, Ltd., Wolverhampton.

Liverpool.—Regional Hospital Board appointed W. L. Lowe, Ferguson & Ptnrs., 3, Eberle-st., Liverpool, as A, and Langdon & Every, 4, Church-st., Liverpool as QS for reorganisation of casualty outpatients' department at South General Infirmary.

Manchester.—Extensions to factory and offices at Leestone-rd., Northenden, for Insuloid Manufacturing Co., Ltd. A: Major R. Bull, 91, High-st., Cheadle.—Extensions to shop premises with workshops over at Minshull-st. and Silver-st. for F. L. Bampton, Ltd. A: E. E. Costello & Associates, 126, Broad-st., Salford.—Single-storey machine shop at 169, Stockport-rd., Ardwick, for the Metallic Seal Co., Ltd. Plans by C. Wise, 3, Hampshire-rd., Droylsden.—R. R. & J. Willan, 2, Brooklands-rd., Sale, propose erection of block of 6 flats at Upper Chorlton-rd., Whalley Range.

Rochdale.—EC to appoint outside architects for erection of new Technical College, £1,000,000 est.

Shildon.—UDC to build 60 houses to cost £96,670, and to acquire further 5.33 acres for housing.

Stockton-on-Tees.—TC received planning permission to erect 257 houses at Hardwick. Boro' A: T. C. Hartley (A), 28, The Square, Stockton-on-Tees.

Sutton Coldfield.—BC approved plans:—30 houses and bungalows at rear of Hill Village for Teall Wood & Co. (A: Hurley, Robinson & Son, 6, Cherry-st., Birmingham); residential layout off Eachelhurst-rd. for Meurex Estate, Ltd.; 30 houses and 19 bungalows at Park View estate for Yenton Building Co., Ltd., 52, Gravelly Hill North, Birmingham; 114 houses at Coppice Farm estate for Cooper Estates, Ltd., Dartford, Kent; and single-storey factory at Boldmere-rd. for Edward Rose (Birmingham), Ltd.

Wrexham.—Layout and elevations of 127 houses to be built at Queen's Park estate for BC are in preparation by Boro' S. with view to early invitation of tenders.

TENDERS

* Denotes *accepted.*
† Denotes *provisionally accepted.*
‡ Denotes *recommended for acceptance.*
§ Denotes *accepted subject to modification.*
¶ Denotes *accepted by H.M. Government Departments.*

Ballymoney, Co. Antrim.—Advance factory for the Industrial Development Branch of the Ministry of Commerce. *J. H. E. Doherty, Coleraine, £75,000.

Belfast.—New 35,000 sq. ft. government factory for Mission Manufacturing Co., of

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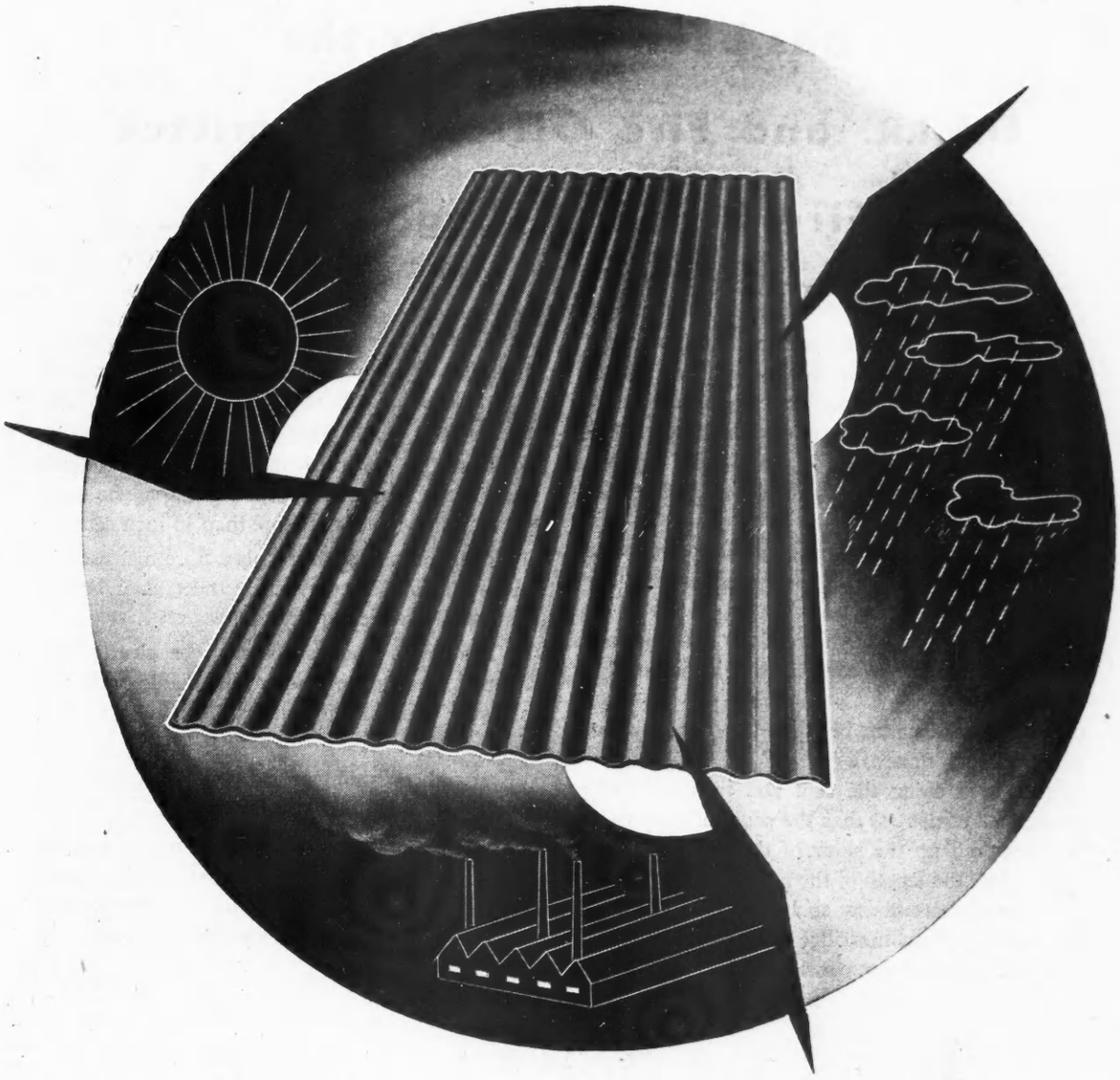

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(Report F.R.O.S.I. 527)

as a result of which the London County Council is prepared to consider the use of these resin-bonded glass fibre corrugated sheets under by-law 1.13 of the London Building (Constructional) By-Laws, 1952, and any approval which may be given will be subject, inter alia, to the following conditions :—

(1) That the area of any panel of the roof covered with such material shall not exceed in any one part 30 sq. feet.

(2) That every part of the roof not covered with such material shall be covered with incombustible material.

(3) That the distance between any two adjacent panels of such material

(i) measured along the roof and parallel to the eaves, shall be not less than the width of the panels.

(ii) measured up the slope of the roof, shall not be less than the length of the panels.

(4) That no part of any such panel shall be at a less distance from the ridge or eaves of the roof than the length of that panel.

(5) That the horizontal joint between every such sheet and any adjoining roof sheet shall be sealed with a layer of soft asbestos wick weather seal, not less than 1 inch wide.

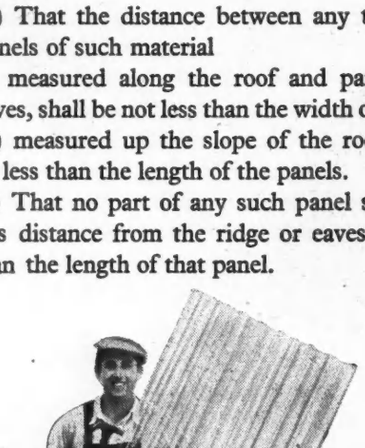
(6) That the vertical joint between every such sheet and any adjoining roof sheet shall be seam bolted with bolts at not more than 15 inch centres.

(7) That the weight of the glass fibre mat used in the production of every such sheet shall be not less than 2 ozs. per square foot.

(8) That every such sheet shall be clearly die-stamped, so as to be readily identifiable, with the following identification mark " F.R.O.S.I. No. 527 ".

Every sheet so identified will withstand the conditions of test F.R.O.S.I. No. 527.

Application is necessary to the Council in each specific case. In other parts of the country where restrictions are at present in force on the use of such materials, application should be made to the appropriate authority.



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Houston, Texas, USA. *James McCreddy, Ltd., Cregagh, Belfast, £125,000.

Berwick.—100 houses at Spittal Hall estate for TC. *J. H. Pierce.

Bilston.—28 flats, 16 houses and seven aged-persons' bungalows for TC. *Gregory Housing, Ltd., Worthing, £66,659.

Birkenhead.—Reconstruction of dairy depot at Etna-st. for Birkenhead & District Co-operative Society, Ltd. *Direct labour.—Construction of "Pelican" Hotel, Woodchurch, for West Cheshire Brewery Co., Ltd. *A. Hopley (Little Sutton), Ltd., 45, Station-rd., Little Sutton, Wirral.

Birmingham.—36 dwellings at Duddeston and Nechells, Unit No. 4, *Five Oaks Estate, Ltd., £72,447; 23 dwellings at Cranes Park estate (infilling), *Gilligan Bros., £34,923; eight dwellings at Chilcote Close, *Gilligan Bros., £12,719.

Birmingham.—Flatted factory at Holloway Head for CC. A: Philip Skelcher & Ptnrs. (R), Lloyds Bank-chmbrs., 17, Poplar-rd., Solihull, Birmingham. *Turriff Construction Corpn., Ltd., Budbrooke-rd., Warwick.

Blyth.—Erection of two reinforced concrete chimneys at Blyth "A" power station, for Central Electricity Authority. *Holst & Co., Ltd., London.

Bootle.—New hotel at Sterrix-la. for Peter Walker Cain, Ltd. *Worthingtons (Contractors), Ltd., 81, Shaw-st., Liverpool.

Buxton.—144 houses and 12 bungalows at Victoria Park estate for BC. *Homeville Builders, Ltd., £219,533 (subject to approval of MH&LG).

Carlisle.—Restoration work at Carlisle Cathedral for Dean and Chapter. *J. Laing & Sons, Dalston-rd., Carlisle.

Chepstow, Mon.—New pulp mills at Sudbrook. Constg. engrs. W. S. Atkins & Ptnrs., Frederick-rd., Edgbaston, Birmingham. *Turriff Construction Corpn., Budbrooke-rd., Warwick.

Chester.—Extensions to transport depot for TC. *John Perkins & Son, Ltd., Ellesmere Port, £11,165.—Erection of dwellings at Blacon estate for TC, 22 houses. *Thos. Warrington & Sons, Ltd., Ellesmere Port; six "Unity" houses, 10 flats and two shops. *Lloyd & Cross, Ltd., Argyle-st., Birkenhead.—56 houses and four flats at Newton Hall estate, 20 bungalows at St. Marks-rd. and 14 bungalows at Blacon for TC. *Thos. Warrington & Sons, Ltd., Ellesmere Port.

Coventry.—Office block in connection with Research Laboratory for H. Ferguson Research Ltd., Coventry. Constg. engrs. W. S. Atkins & Ptnrs., Frederick-rd., Edgbaston, Birmingham. *Turriff Construction Corpn., Ltd., Budbrooke-rd., Warwick.

Durham.—12 houses at Pittington and 16 houses at Sherburn for RDC. *Direct labour, £18,370 and £20,130.

Glasgow.—84 houses at Wester-rd. General contrs. *A. A. Stuart & Sons (Glasgow), Ltd., 2273, London-rd., Mount Vernon, Lanarkshire.

Glasgow.—18 bungalows at Old Castle-rd., General contrs. *Mactaggart & Mickle, Ltd., 107, West Regent-st., Glasgow, WC2.

Glasgow.—Scheme of semi-detached houses to be erected at Kildary-rd. A: Norman Macfadzean, 137, West Regent-st., Glasgow, WC2. General contrs. *John Lawrence & Co. (Glasgow), Ltd., Blythswood, Glasgow, WC2.

Heywood.—Extensions at Crimble Mill for James Kenyon & Sons, Ltd. *James Berry, Ltd., Chapel-st., Heywood.

Kilmarnock.—100 houses as 23rd development of Bellfield housing site, and 24th development. Burgh A: Neil S. Sutherland, FIAA. QS: William H. MacColl, AMICE. *Anderson & Innes & Co., Ltd., 34, Green-st., £141,599; and *John Mounds (Kilmarnock), Ltd., East Netherton-st., £70,536.

Leamington Spa.—New administrative block at Tachbrook-rd. for Lockheed Hydraulic Brake Co., Ltd. A: C. M. Townend (A). *Turriff Construction Corpn., Ltd., Budbrooke-rd., Warwick.

Liverpool.—Extensions at Rose-la. county sec. sch. for EC. *C. J. Doyle & Sons, Ltd., Mount Pleasant, Liverpool, £44,862.—New central bus garage at Gill Moss for TC. *John McGeogh & Sons, Ltd., Arbour-la., Kirkby industrial estate, Liverpool, £339,962.—12 shops and 24 flats at Northwood estate, Kirkby. *Unit Construction Co., Ltd., Liverpool, £71,800.—Four houses at Mulliner-st. and six at Stevenson-st. *Vallance & Hughes, Ltd., 47, Taylor-st., Liverpool, £9,313 and £12,676.

¶London (Admiralty).—Particulars of contracts over £1,000 in value:—*Durham*: Reconstruction of railway siding, H. Boot & Sons, Ltd., Banner Cross Hall, Ecclesall-rd. South, Sheffield 11. *Yorkshire*: Internal decorations, Modern Decorations (Horsforth), Ltd., Stanhope-drive, Horsforth, Leeds; Concrete and tarmac areas, Sangwin, Ltd., Sculcoates-la., Hull. *Devon*: Painting, Ferrings, 20, South Town, Dartmouth. *Fife*: Cable trenching, G. Bald, 26, Queen Anne-st., Dunfermline.

¶London (Air Ministry).—New works contracts to value £500 or over for fortnight ended August 8:—

Painting work: T. H. Kenyon & Sons, Ltd., Chancellors Works, Croxley-rd., W9 (3 contracts); W. J. Davy & Sons, Ltd., Selby-pl., Gt. Yarmouth, Norfolk; F. Troy & Co. Ltd., 131, Great Suffolk-st., SE1 (2 contracts); William Herd & Co., Ltd., 95, Baker-st., W1 (5 contracts); Decorative Painting Contrs., Ltd., 179-183, Staines-rd., Hounslow, Middx; J. & B. Abbott (Contrs.), Ltd., Sherbourne-ho., Northolt-rd., Harrow, Middx (3 contracts); Fields, Ltd., 12, Kew-rd., Richmond, Surrey; C. J. Elsie & Co., Ltd., 467, High-st., Lincoln; P. J. Hartel (Southern), Ltd., 10, Cumberland-pl., Southampton; F. Labbett & Son, Ltd., 88, Willoughby-st., Lenton, Nottingham; Ian Williams & Co., Ltd., Ely Paint Works, Wroughton-pl., Ely, Cardiff (4 contracts); J. J. Hamilton & Sons, 8, Hockmore-st., Cowley, Oxford; W. T. Pickering & Sons, Ltd., 19, Watford Heath, Watford. *Air conditioning*: Benham & Sons, Ltd., 66, Wigmore-st., W1. *Resurfacing work*: Thomas Ashley (Contractors), Ltd., 314, Chester-rd., Hertford, Northwich, Ches. *Painting work*: S. & J. Connelly, 137a, Lisburn-rd., Finaghy, Belfast, Nth Ireland; Wm. Winstanley & Co., Ltd., Park-pl., Warrington, Lancs (3 contracts). *Resurfacing work*: Crowley Russel & Co., Ltd., Ings Lane Works, Castleford, Yorks. *Artificers' work*: Haymills (Contrs.), Ltd., Hanger Green, Western-ave., W5; Dickinson (Burslem), Ltd., Anna-st., Burslem, Stoke-on-Trent; Adkins & Shawl (Builders and Contrs.), Ltd., The Clock Chbrs, St. James-rd., Northampton. *Building work*: R. Corben & Son, Ltd., 26, Carlton-cres., Southampton. *Civil engineering*: W. & G. French, Ltd., Buckhurst Hill, Essex. *Resurfacing*: General Asphalte Co., Ltd., 56, Milk-st., Digberth, Birmingham, 5; William Prestwich & Sons, Ltd., Dronfield, nr. Sheffield. *Painting work*: James Garvey & Co., 111-113, Divis-st., Belfast, North Ireland (2 contracts); Donald Humberstone & Co., Ltd., North Sohercotes, Louth, Lincs (2 contracts); Alfred Bagnal & Sons, Ltd., York Ho., 141, Uxbridge-rd., W12; C. A. Hayes & Sons (Painting), Ltd., Stock Ho., Hotwells, Bristol, 8; M. A. Appleton (Contrs.), Ltd., 22, Bilston-st., Wolverhampton. *Building work*: Strange & Sons (Bexhill-on-Sea), Ltd., 8, Terminus-rd., Bexhill-on-Sea, Sussex; Wilson Lovatt & Sons, Ltd., Clarence Ho., Wolverhampton; William Press & Son, Ltd., Willoughby-la., Tottenham, N17; Markwell Holmes & Hayter, Ltd., 198, Albert-ave., Hull; Arthur Stephenson (Harrogate), Ltd., Hookstone-chase, Harrogate; Ralph Thomson (Cherry Hinton), Ltd., High-st., Cherry Hinton, Cambs. *Civil engineering*: Simmons & Hawker, Ltd., Southdown Works, Point Pleasant, SW18; Highways Construction, Ltd., Iddesleigh Ho., Caxton-st., SW1; Cubitt & Gotts, Ltd., Westerfield, Ipswich. *Heating and hot W.S.*: Richard Crittall & Co., Ltd., Stueart Ho., Union-st., Bristol, 1. *Pressure refuelling*: Robert M. Douglas (Contrs.), Ltd., 395, George-rd., Erdington, Birmingham, 23.

¶London (Metropolitan Police).—Tenders for building works:—Erection of 8 M. qtrs., Chapel Walk, Hendon, Wm. Moss & Sons, Ltd., £21,752; external redecorations. Elliott-hse., Crawford-place, J. Appleby & Sons, Ltd., £650; external painting and repairs, Stoke Newington police station, R. Woollaston & Co., £1,064; external painting, Imperial-drive, North Harrow, A. H. W. Todman & Son, Ltd., £579; external decorations and repairs, Lambeth Building, SE1, Campbell Bros., Ltd., £2,206; external painting and repairs and part internal cleansing, Highbury Vale police station, W. T. Ricketts & Sons, Ltd., £821; external painting and repairs, Caledonian-rd. police station, W. J. Cooper, Ltd., £713; resurfacing of roadway, Imber Court, Road Reconstruction, Ltd., £712; external painting and repairs and part internal redecorations, police station and No. 4 cottages, South Mimms, Burnham & Bainbridge, Ltd., £441; external redecorations, Albany-st. police station, Druce & Co., Ltd., £687.

¶London (Ministry of Works).—Contracts placed for week ending August 4:—*Essex:* Branch Post Office, Aveley LCC Estate, South Ockendon, external and internal finishes and fittings, S. Cronin & Sons, Ltd., 161/163, Warley Hill, Brentwood. *London:* Royal Courts of Justice, Strand, WC1, painting and cleaning, South London Decorators, Ltd., 9, Streatham High-rd., SW16; Royal Naval College, Greenwich, SE10, internal decorations, South London Decorators, Ltd., 9, Streatham High-rd., SW16. *Shropshire:* Whitchurch, Salop, erection of automatic telephone exchange, Whitchurch (Salop) Contractors, Ltd., Castle Hill, Whitchurch. *Staffordshire:* Ministry of Supply Housing Estate, Walton, nr. Stone, refelting roofs, General Asphalte Co., Ltd., 56, Milk-st., Birmingham, 5. *Warwickshire:* Temporary Office Building, Hagley-rd. West, Birmingham, internal and external painting, F. S. Bendy & Sons, Ltd., 128, Brighton-rd., Birmingham, 12.

¶London (MoW).—Contracts placed for week ended July 28:—*Kent*: 56, Mount Ephraim, Tunbridge Wells, occupational services, W. H. Cripps & Sons, Ltd., Tarland-hse., Bayhall-rd., Tunbridge Wells. *Glamorganshire*: Whitchurch, erection and completion of proposed telephone exchange, Frank Batty & Smith, Ltd., 64, System-st., Splott, Cardiff. *Gloucestershire*: Ministry of Labour Government Training Centre, Vassall-rd., Fishponds, Bristol, internal and external decorations, Stone & Co. (Bristol), Ltd., Queens-rd., Bristol 8. *Middlesex*: Post Office Research Station, Dolis Hill, NW2, alterations to old workshop, Dennis Price, Ltd., 6, Lechmere-rd., Willesden Green, NW2.

¶London (War Dept.).—Works contracts placed in week ended August 3:—*Berkshire*: Flooring, Vigers Bros., Ltd., London. *Cumberland*: Site works, John Leck & Son, Ulverston. *Hampshire*: Miscellaneous, J. Bates & Sons, Southampton. *London*: Electrical installations, Girdlestone & Co., Ltd., London. *Nottinghamshire*: Painting and decorating, Donald Humberstone & Co., Ltd., Louth. *Pembrokeshire*: Erection of sheds, Hussey Egan & Pickmere, Ltd., Birmingham. *Surrey*: Miscellaneous, Fields, Ltd., Reading. *Wiltshire*: Roadwork, Constable Hart & Co., Ltd., Portsmouth.

Malvern.—Research laboratories for Ministry of Works. *Turriff Construction Corpn., Ltd., Budbrooke-rd., Warwick.

Margate.—36 flats at Addiscombe-rd. housing site for BC. Boro' E: W. L. Armstrong, BSc. 38, Grosvenor-pl. QS: Harris & Ptnrs.

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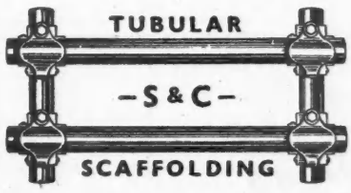

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Middlesbrough.—30 houses at Pallister Park site for TC. Boro' E: J. A. Kenyon. *J. C. Mitchell, Dixons Bank, Middlesbrough, £41,308.

Middlesbrough.—15 houses at Pallister Park housing estate for TC. *E. Lowe, Lansdowne-rd., Middlesbrough, £20,851.

Newcastle upon Tyne.—Factory at Walker for Universal Joiners, Ltd. *Alston Limestone Co., Ltd., Lynwood-terr., Newcastle. *Steelwork:* Northern Tubular Buildings, Ltd., Newcastle.

Newcastle upon Tyne.—Subtrades let by EC for stage 3 of new Rutherford College of Technology:—*Heating, ventilating and engineering services,* *W. Dix & Co., Ltd., Tower-st., Newcastle, £37,738; *electrical installation,* *Veale Nixon, Ltd., Saville-row, Newcastle, £19,552; *and lift installation,* *Express Lift Co., Ltd., Abbey Works, Northampton.

Oxford.—Six shops with maisonettes over and six garages at Barns-rd. for City C. City A. and Planning Officer: E. G. Chandler (A). QS: H. J. Ridge & Ptnrs. *F. J. Minns & Co., Ltd., 67, St. Aldate's, Oxford, £24,991 (subject to MH&LG approval).

Rugby.—51 houses at Bromwich-rd. for BC. *Browning Construction Co., 19, Hillmorton-rd., £79,000 (extension of existing contract for Abbott's Farm estate) (subject to MH&LG approval).

St. Asaph.—New factory at Glascoed-rd. for Polkington Bros., Ltd. *Holland & Hannen and Cubitts, Ltd., Liverpool.

Sheffield.—Erection of St. Peters R.C. sec. mod. sch. at Morrall-rd. *George Longden & Sons, Ltd., St. Peters-close, Hartshead, Sheffield.

Stockton-on-Tees.—161 houses at Hardwick housing estate for TC. Boro' A: T. C. Hartley (A), 28, The Square, Stockton. *George Fordy & Son, Boathouse-la., Stockton-on-Tees, £229,053.

Stockton-on-Tees.—54 flats west of Fairfield-rd. for TC. Boro' A: T. C. Hartley (A), 28, The Square, Stockton. *Lawrence Brown & Son, Boathouse-la., Stockton, £72,765.

Sutton Coldfield.—13 dwellings at Falcon Lodge estate for BC. *A. E. Jones, Lemnel Wylde Green-rd., £16,300.

West Bromwich.—60 houses at Clifford-rd. site for BC. *Wm. Whittingham, Ltd., Ettinghall-rd., Wolverhampton, £80,003.

West Hartlepool.—20 houses at Section 6b of Owton Manor estate for TC. Boro' A: A. G. Sinclair (A). *Direct labour.

Whitley Bay.—Conversion of showrooms and shops at Ocean View into residential flats. A: C. Solomon (F), 38, St. Mary's-pl., Newcastle. *J. G. Spotswood, Ltd., Heaton-rd., Newcastle upon Tyne.

Worksop.—New factory for Sheffield Twist Drill and Steel Co., Ltd., Sheffield. *J. E. Smith (Worksop), Ltd., Kilton-rd., Worksop.

Wrexham.—86 dwellings at Queen's Park estate, section 8 for BC. Boro' E&S: J. M. Davies, MIMunE, AInstSP, Regd. Arch. *Thos. Warrington & Sons, Ltd., Ellesmere Port, Cheshire, £91,905 (subject to Ministry approval).

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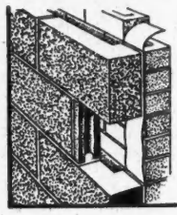

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CONTRACTS

BOROUGH OF HARROW.

SUPPLY AND ERECTION OF FENCING AT: BERRIDGE HOUSING ESTATE, EDGWARE.

TENDERS are invited from fencing contractors for the SUPPLY and ERECTION of chesnut pale, close-boarded and post and wire fences to approximately half the dwellings on the Corporation's Berridge Housing Estate, Edgware.

Plans indicating the siting of the fences it is proposed to replace are available for inspection at, and the Specification and Form of Tender may be obtained from, the office of the Borough Engineer and Surveyor, Council Offices, Stanmore, upon payment of a deposit of two pounds (£2), returnable where a bona-fide tender reaches the Corporation within the prescribed time.

Sealed tenders in plain envelopes, bearing no name or mark indicating the sender, but having attached the label provided, endorsed "Berridge Estate—Fencing" are to be forwarded so as to reach the undersigned not later than 10 a.m. on WEDNESDAY, 12th SEPTEMBER, 1956.

The Council does not bind itself to accept the lowest or any tender.

D. H. PRITCHARD,
Town Clerk.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

PROPOSED ERECTION OF NO. 195 DWELLINGS. SITE NO. 15, BLYTHE-AVENUE, SHOEBURYNESS.

TENDERS are invited for the performance of works in connections with the proposed ERECTION OF NO. 195 DWELLINGS, and works incidental thereto, at SITE No. 15, BLYTH-AVENUE, SHOEBURYNESS, as follows:—

Six three-storey blocks of 45 flats.

Three three-storey blocks of 21 flats and maisonettes.

Twenty-eight two-storey blocks, comprising 129 one, two, three and four-bedroom houses and flats.

General Conditions may be inspected and copies of Forms of Tender and Bills of Quantities obtained on and after Tuesday, 14th August, 1956, on application to the Borough Architect, 30, Alexandra-street, on payment of a deposit of £2, which will be refunded on receipt of a bona-fide Tender or the return of all loaned documents.

Sealed Tenders, addressed to the undersigned and endorsed "Erection of 195 Dwellings, Site No. 15, Shoeburyness," are to be delivered to this office before 12 noon on WEDNESDAY, 12th SEPTEMBER, 1956.

No Tender will be received except in the special envelope provided, which shall not bear any name or mark indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender, and reserve the right to accept a Tender in whole or in part.

ARCHIBALD GLEN,
Town Clerk.

EAST SUFFOLK COUNTY COUNCIL.

ERECTION OF POLICE HOUSES AT LOWESTOFT.

Builders wishing to tender for the erection of a pair of Police Houses in Yarmouth-road, Lowestoft, are invited to make application to the County Architect, Mr. E. J. Symcox, F.R.I.B.A., County Hall, Ipswich before the 22nd of August, 1956.

Deposit of two guineas required on application (cheques payable to East Suffolk County Council) returnable on receipt of tender.

Bills of Quantities, Forms of Tender, etc., will be sent out on the 24th of August, for tenders required by the 14th SEPTEMBER.

CITY OF OXFORD.

NEW BUILDING WORKS.

The Council intends to carry out the following, all in traditional construction:—

(a) Block of three SHOPS with MAISONETTES over, and three LOCK-UP GARAGES, etc., at The Oval, Rose Hill Estate.
(b) Block of twelve SMALL FLATS, and five LOCK-UP GARAGES, at the junction of Banbury-road and Wentworth-road.
(c) Terrace of three THREE-BEDROOMED HOUSES at Boswell-road, Cowley.

It is expected that Bills of Quantities for Scheme (a) will be available by the middle of August, and those for Schemes (b) and (c) early in September.

Contractors wishing to tender for any or all of these schemes should write to E. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect and Planning Officer, Town Hall, Oxford, before TUESDAY, 21st AUGUST, 1956, stating in which schemes they are interested.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

BOROUGH OF BASINGSTOKE.

SOUTH HAM HOUSING ESTATE.

TENDERS are invited for the ERECTION of 112 DWELLINGS together with ancillary Site Works at St. Peter's-road, Basingstoke.

Form of Tender and Bills of Quantities and General Conditions of Contract may be obtained from the Borough Architect, Eric Almond, Dipl.Arch., A.R.I.B.A., Municipal Buildings, Basingstoke, on payment of a deposit of £2 2s. which will be returned on receipt of a bona-fide tender.

Tenders are to be delivered to the undersigned not later than MONDAY, 10th SEPTEMBER, 1956.

Roadworks for this and future schemes will be advertised shortly.

The Council do not bind themselves to accept the lowest or any tender.

MEIRION O. JONES,
Town Clerk.

Municipal Buildings,
Basingstoke.

BOROUGH OF NEWBURY.

40 AGED-PERSONS BUNGALOWS, SHAW, NEWBURY.

TENDERS are invited for the above to be ERECTED at SHAW-CRESCENT, NEWBURY. Form of Tender, Specification and Bills of Quantities may be obtained from the Borough Surveyor and Water Engineer, Municipal Buildings, Newbury, at whose office the plans and General Conditions may be inspected.

Sealed Tenders endorsed "Tender for Scheme 8.A." must be delivered to the undersigned not later than 9 a.m., MONDAY, 10th SEPTEMBER, 1956. The Corporation does not bind itself to accept the lowest or any Tender.

LESLIE SOUTHERN,
Town Clerk.

Municipal Buildings,
Newbury.
11th August, 1956.

BOROUGH OF BRIGHOUSE.

HOUSING AND PROPERTY COMMITTEEE.

HOUSING STONEY-LANE AND FIELD-LANE ESTATES.

TENDERS are invited for the following Contracts:—

Contract 49—2 bungalows and 3 houses, Stoney-lane Estate.
Contract 58—16 single persons flats, Field-lane, Estate.
Contract 59—10 houses, Field-lane Estate.
Contract 62—30 houses Field-lane Estate.

Tenders to be based on plans and specification obtainable on aplication to the Borough Engineer and Surveyor, H. A. Sneezum, A.M.I.C.E., Commercial-street, Brighouse.

The Council does not bind itself to accept the lowest or any tender.

Tenders to be delivered to my office in a plain sealed envelope endorsed with the Contract No. not later than the first post on 15th SEPTEMBER next.

J. R. LIDDLE.
Town Clerk.

Town Hall,
Brighouse.

CORPORATION OF GLASGOW.

HOUSING SCHEME.
SUMMERTOWN-ROAD, GOVAN.

36 FLATS FOR AGED PERSONS

Tenders are invited for the SEVERAL WORKS in connection with the ERECTION OF FLATS at the above site.

Conditions of Contract, Specification, Schedule of Quantities (three to each offerer) and Form of Tender obtainable from Architectural and Planning Department, 20, Trongate, Glasgow, C.1, to be returned to me by 30th AUGUST, 1956.

WILLIAM KERR,
Town Clerk.

City Chambers,
Glasgow, C.2.

CUCKFIELD RURAL DISTRICT COUNCIL.

PROPOSED TRADITIONAL DWELLINGS AT HASSOCKS.

CONTRACT NO. 121.

TENDERS are invited for the ERECTION OF 42 FLATS at Hassocks.

Specification, Bills of Quantities and Form of Tender can be obtained from Mr. A. Hutchings, M.B.E., M.I.Mun.E., Engineer and Surveyor, on payment of a deposit of £2 2s. Deposits will be returned on receipt of a bona-fide tender and the return of all documents.

Plans and drawings can be inspected at the Council Offices during normal working hours.

Tenders, accompanied by all necessary documents, enclosed in a plain envelope and sealed and endorsed "Tender for Housing" should be addressed to the undersigned not later than noon on MONDAY, the 10th SEPTEMBER, 1956.

The Council do not bind themselves to accept the lowest or any tender.

J. A. CHURCHILL,
Clerk of the Council.

Rural Council Offices,
Boltro-road,
Haywards Heath,
Sussex.
7th August, 1956.

HERTFORD RURAL DISTRICT COUNCIL.

BUILDING CONTRACT.

PARISHES OF TEWIN AND DATCHWORTH.

TENDERS are invited for the ERECTION of the following:—

At Tewin—8 bungalows (types "B" and "C").
At Datchworth—6 three-bedroom houses and 4 bungalows (type "B").

The contracts for each Parish are complete in themselves.

Experienced contractors who are desirous of tendering should apply to me for copies of the drawings and Specifications not later than Saturday, the 1st September, 1956, enclosing a deposit cheque for £3, made payable to the Council. This sum will be refunded upon the receipt of a bona-fide tender not subsequently withdrawn and the return of all documents.

A Bond for the due performance of the contract will be required.

Sealed tenders in plain envelopes endorsed "Tewin and Datchworth Building Contract" to be delivered to me not later than 12 noon on MONDAY, the 24th SEPTEMBER, 1956.

The lowest or any tender will not necessarily be accepted.

E. A. WILLIAMS,
Clerk of the Council.

Wallfields,
Pegs-lane,
Hertford.
17th August, 1956.

COUNTY BOROUGH OF ROCHDALE.

TENDERS are invited for the CONSTRUCTION of the NEW ST. PETER'S C. of E. SCHOOL, KINGSWAY, ROCHDALE. Particulars may be obtained from the Architects, Messrs. Grenfell, Baines & Hargreaves, 12-24, Guildhall-street, Preston, where Bills of Quantities and a Form of Tender can be obtained on payment of £2 2s., which will be returned in case a Tender is submitted.

Tenders in sealed envelopes endorsed "Tender—Construction of St. Peter's C. of E. School." to be delivered to the Town Clerk, Town Hall, Rochdale, by 12th SEPTEMBER, 1956.

EAST SUFFOLK COUNTY COUNCIL.

EXTENSIONS TO FELIXSTOWE GRAMMAR SCHOOL.

The Council propose to invite tenders from selected builders, for the ERECTION OF EXTENSIONS estimated to cost £60,000.

Drawings prepared under the direction of Mr. E. J. Symcox, F.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, between 9.30 a.m. and 4.30 p.m.

Building contractors wishing to tender should submit their names to the county Architect, County Hall, Ipswich, by the 31st August. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 7th September for tenders by the 2nd OCTOBER, 1956; builders not selected will be notified at the same time.

NEWMARKET URBAN DISTRICT COUNCIL.

28 HOUSES IN ST. WENDRED'S-WAY, EXNING.

TENDERS are invited for the ERECTION of SEVEN BLOCKS of FOUR HOUSES, to be built in traditional construction on the new housing site off CHAPEL-STREET, EXNING.

The work to be carried out includes the whole of the SITE PREPARATION, PAVING, DRAINAGE & SERVICES.

Applications, accompanied by a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender and/or the return of all documents, should be addressed to the Architect, Mr. P. D. Lees, at the Council Offices, Severals House, Newmarket (where Drawings and Conditions of Contract may be inspected during normal office hours), and Tenders are to be delivered to the undersigned not later than 10 a.m. on TUESDAY, 11th SEPTEMBER, 1956.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN CRABB,
Clerk of the Council.

Severals House,
Newmarket.
8th August, 1956.

BOROUGH OF FLINT.

ERECTION OF 26 HOUSES AT BRON HAUL, BAGILLT.

TENDERS are invited for the ERECTION of 26 THREE-BEDROOM SEMI-DETACHED HOUSES on the ABOVE SITE.

Bills of Quantities may be obtained from, and the other documents inspected at, the office of the Borough Engineer and Suryevor, Municipal Offices, Earl-street, Flint, on payment of a refundable deposit of Two Guineas.

Tenders, on the prescribed form, must be delivered to the undersigned not later than THURSDAY, 13th SEPTEMBER, 1956, in a plain sealed envelope endorsed "Tender for Houses, Bron Haul."

The Council do not bind themselves to accepte the lowest or any Tender.

WILLIAM McINTYRE,
Town Clerk.

Town Hall,
Flint.
8th August, 1956.

COUNTY COUNCIL OF ESSEX.

CHINGFORD, YARDLEY-LANE COUNTY PRIMARY SCHOOL.

ADDITIONAL ACCOMMODATION.

The Education Committee of the County Council of Essex invite Building Contractors who are willing to tender for the above work to submit their names. The approximate value of the contract will be £4,500 and the work will consist of the ERECTION of ADDITIONAL CLASSROOMS in PRE-FABRICATED HUTTING.

From the names submitted, a panel of contractors will be chosen, who will subsequently be provided with tender documents.

The Architect for this work is:—
F. G. Frizzell, Esq., A.R.I.B.A., A.M.T.P.I., A.I.L.A.,
80, Portland Place, London, W.1.

Contractors' applications should be sent to reach the undersigned not later than MONDAY, 27th AUGUST, 1956.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.
August, 1956.

METROPOLITAN BOROUGH OF WANDSWORTH.

NEW DWELLINGS AT CLARENCE-AVENUE, CLAPHAM, S.W.4.

Contractors wishing to tender for the ERECTION of 27 FLATS in THREE-STOREY BLOCKS & 11 TWO-STOREY HOUSES (total 38 dwellings), together with ROAD & SEWER WORKS, should submit their names to me not later than WEDNESDAY, 5th SEPTEMBER, 1956, giving details of experience, plant and technical and supervisory staff available, together with the names of two technical and two financial referees. Bills of Quantities will be issued to selected contractors in due course.

Drawings may be examined at the office of the Borough Engineer and Architect, Municipal Buildings, S.W.18.

R. H. JERMAN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.
8th August, 1956.

ATHERSTONE RURAL DISTRICT COUNCIL.

ALTERATIONS TO COUNCIL OFFICES.

TENDERS are invited for carrying out substantial alterations and extensions to the existing Council Offices.

Contract Documents and Bills of Quantities may be obtained from Mr. D. C. Smith, Engineer and Surveyor, Council Offices, Athersone, on payment of a deposit of £3 3s. which will be refunded on receipt of a bona-fide tender not subsequently withdrawn. Drawings of the work may be inspected in the Engineer and Surveyor's Department during normal office hours.

Tenders in a plain sealed envelope endorsed "Tender for Council Offices alterations" must be delivered to the undersigned not later than 12 noon on MONDAY the 10th SEPTEMBER, 1956.

The Council do not bind themselves to accept the lowest or any tender.

G. CARLYON MAY,
Clerk of the Council.

Council Offices,
Atherstone,
Warwickshire.
10th August, 1956.

NORTHERN FIRE AREA JOINT COMMITTEE.

NEW CENTRAL FIRE STATION, LONGMAN, INVERNESS.

TENDERS are invited for the SUPPLY and ERECTION of the Steelwork required in the above Fire Station. All relative documents and Schedule of Quantities may be obtained from the Burgh Architect, Mr. J. Blackburn, F.R.I.B.A., 11, High-street, Inverness.

Tenders, under sealed cover endorsed "Tender for Steelwork, Fire Station," to be lodged with the subscriber not later than first post on WEDNESDAY, 12th SEPTEMBER, 1956.

JAMES CAMERON,
Clerk to the Northern Fire Area Joint Committee.

Town Hall,
Inverness.
6th August, 1956.

HAMPSHIRE COUNTY COUNCIL.

INTERNAL TELEPHONES.

TENDERS are shortly to be invited for the SUPPLY and INSTALLATION of an AUTOMATIC INTERNAL TELEPHONE SYSTEM in the County Offices at Castle-avenue and Castle Hill, Winchester, and in the new County Offices now under construction at Upper High-street, Winchester.

Firms specialising in this work who wish to tender should apply to the undersigned not later than SATURDAY, 1st SEPTEMBER, 1956. Forms of tender, particulars and plans will be forwarded to applicants as soon as possible after this date.

A deposit of £2 2s. payable by cheque to the County Treasurer, will be required and this will be refunded on receipt of a bona-fide tender or the return of the documents.

The County Council do not bind themselves to accept the lowest or any tender.

G. A. WHEATLEY,
Clerk of the County Council.

The Castle,
Winchester.
1st August, 1956.

STATES OF GUERNSEY.

EDUCATION COUNCIL.

BEAUCAMP SCHOOL.

The States Education Council invite TENDERS for the ERECTION of a NEW SECONDARY MODERN SCHOOL to accommodate 600 pupils at BEAUCAMP, CASTEL. Plans and Bills of Quantities may be obtained from the States Engineer, States Office Annexe, Albert Pier, Guernsey on payment of a deposit of Three Guineas, which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Tenders in sealed envelopes, endorsed "Beaucamp School," are to be delivered to the President, States Education Council, La Porte, Elm-grove, St. Peter Port, Guernsey, not later than noon on MONDAY, 1st OCTOBER, 1956.

BOROUGH OF RHONDDA.

TENDERS FOR CONSTRUCTION OF ROAD AND SEWER WORKS.

TENDERS are invited for the CONSTRUCTION of BUILDERS' ROADS, SEWERS AND LAND DRAINAGE WORKS on the Mount Libanus Housing Site at Treherbert.

The work includes approximately:—
10,000 cubic yards Excavation.
9,120 square yards Road Formation.
1,670 lineal yards Stoneware Drains.
2,420 lineal yards Concrete Drains.
77 No. Manholes.
97 No. Gullies.

Bills of Quantities and Form of Tender may be obtained on application to Mr. C. Gingell, A.R.I.B.A., A.R.I.C.S., Borough Housing Architect, 13, Ystrad-road, Pentre, Rhondda, by deposit of £3 3s. (by crossed cheque, made payable to Rhondda Borough Council), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn. Plans may be inspected at the office of the Borough Housing Architect during normal office hours.

Tenders on the prescribed form enclosed in a plain sealed envelope, endorsed "Roads and Sewers, Treherbert," bearing no mark or indication of the sender, must be delivered to the undersigned on or before 31st AUGUST, 1956.

The Council does not bind itself to accept the lowest or any Tender.

D. J. JONES, C.B.E.,
Town Clerk.

Municipal Offices,
Pentre,
Rhondda.
8th August, 1956.

COUNTY BOROUGH OF PRESTON.

TENDERS are invited for the ERECTION of BROOKFIELD COUNTY PRIMARY SCHOOL. Drawings may be inspected at the office of the Architects, Messrs. Derby, Fazackerly & Pinder, 20, Ribblesdale-place, Preston.

Bills of Quantities and Forms of Tender may be obtained from the Borough Engineer and Surveyor, P.O. Box No. 10., Municipal Building, Preston, on payment of a deposit of £2 2s. returnable on receipt of a bona-fide tender.

Tenders on the prescribed form, in the envelope provided and bearing no indication of the sender, must be delivered to the undersigned, not later than 10 a.m. THURSDAY, 20th SEPTEMBER, 1956.

W. E. E. LOCKLEY,
Town Clerk.

COUNTY OF LINCOLN—PARTS OF KESTEVEN.

HECKINTON MANOR OLD PEOPLE'S HOME.

NEW ENTRANCE AND DRIVES, ETC.

TENDERS are invited for the CONSTRUCTION of NEW ENTRANCE GATES and CONCRETE ROAD, together with REPAIRING, GRAVELLING EXISTING DRIVES, at HECKINGTON MANOR OLD PEOPLE'S HOME.

Tender Documents may be obtained from the County Architect, County Offices, Sleaford, Lincs.

Tenders, addressed to the undersigned, must be delivered not later than the 10th SEPTEMBER, 1956.

J. E. BLOW,
Clerk of the County Council.

County Offices,
Sleaford.

COUNTY BOROUGH OF READING.

TO BUILDERS AND CONTRACTORS.

TENDERS are invited for ERECTION of 24 ONE-BEDROOMED MAISONETTES in THREE BLOCKS of EIGHT in COLEY-PLACE, READING. General Conditions of Contract and Drawings may be inspected at the Borough Architect's office, Town Hall, Reading; and Bills of Quantities and Forms of Tender may be obtained on application to him, accompanied by a cheque (made payable to the Reading Corporation) for Two Guineas, which will be refunded on receipt of bona-fide Tender. Tenders to be delivered to Town Clerk, Town Hall, Reading, not later than 5 p.m., on 7th SEPTEMBER, 1956.

No Tender considered unless enclosed in sealed and endorsed envelope provided and bearing no name or mark indicating the sender. The Corporation do not bind themselves to accept the lowest or any Tender.

CRAWLEY DEVELOPMENT CORPORATION

invite applications from Contractors who wish to be considered for tendering upon Bills of Quantities for the EXTENSION of the ADMINISTRATION BLOCK and the ERECTION of a CANTEEN and GARAGE BLOCK at the SEWAGE TREATMENT WORKS, RADFORD-ROAD, TINSLEY GREEN, CRAWLEY. Approximate cost of the work £11,500. Contractors should have their own joinery department.

Apply to the Chief Architect, Broadfield, Crawley, Sussex, by the 30th AUGUST, 1956.

C. A. C. TURNER,
Chief Executive.

BOARD OF GOVERNORS.

THE ROYAL NATIONAL THROAT, NOSE & EAR HOSPITAL, GRAY'S INN-ROAD, LONDON, W.C.1.

ALTERATIONS TO EXISTING BUILDINGS TO SUPPLY NEW X-RAY DIAGNOSTIC DEPARTMENT & IMPROVEMENTS TO OUT-PATIENT ACCOMMODATION, Etc.

Contractors wishing to be considered for tendering for the above work (estimated to cost about £40,000) are invited to apply to the Secretary within seven days of the appearance hereof giving particulars of recently completed contracts with name of architect concerned and a banker's reference.

Forms of Tender and Bill of Quantities will be issued to approved firms by 7th September and are returnable by 8th OCTOBER.

Drawings will be available for inspection by arrangement at the offices of the Board's Architect (Mr. G. H. N. Inman, F.R.I.B.A.; CLErkenwell 4414).

COUNTY BOROUGH OF PRESTON.

TENDERS are invited for the ERECTION of a GARDENER'S HOUSE at the Larches Hostel, Larches-lane, Preston. Drawings may be inspected at the office of the Architect, Mr. T. Devlin, A.R.I.B.A., 117, Fishergate, Preston.

Bills of Quantities and Forms of Tender may be obtained from the Borough Engineer and Surveyor, P.O. Box No. 10., Municipal Building, Preston, on payment of a deposit of £2 2s. returnable on receipt of a bona-fide tender.

Tenders on the prescribed form, in the envelope provided and bearing no indication of the sender, must be delivered to the undersigned, not later than 10 a.m. THURSDAY, 6th SEPTEMBER, 1956.

W. E. E. LOCKLEY,
Town Clerk.

NORTH EAST METROPOLITAN REGIONAL HOSPITAL BOARD.

SOUTH OCKENDON HOSPITAL, SOUTH OCKENDON.

NEW ROADS AND ROAD WIDENING, HYDRANT MAINS, MAIN DRAINS & ROAD LIGHTING (26E/44).

Contractors wishing to tender for the above work (estimated to cost £18,000) are invited to make application to the Secretary, North East Metropolitan Regional Hospital Board, 11a, Portland Place, London, W.1, within seven days of the appearance of this advertisement, giving details of contracts carried out by them and the names of three referees.

Tender documents, together with the relevant details as to the time and date for the receipt of Tenders, will be forwarded to selected applicants in due course.

The drawings and conditions of contract may be examined at the offices of the Regional Architect, 3, Queen Anne-street, London, W.1, during normal office hours.

SURREY COUNTY COUNCIL.

TENDERS FOR PROPOSED EXTENSION TO THE HATFIELD COUNTY PRIMARY SCHOOL, MERTON (REVISED SCHEME).

The work consists of the ERECTION in permanent construction of THREE CLASSROOMS and ASSEMBLY HALL to accommodate 120 pupils.

Contractors wishing to tender should apply to the County Architect, County Hall, Kingston upon Thames, by 23rd AUGUST, 1956.

DURHAM COUNTY COUNCIL.

TENDERS invited:—

HARTLEPOOL, HENRY SMITH SCHOOL.—Additional Sanitary Accommodation.

SEAHAM GIRLS' GRAMMAR SCHOOL.—Proposed Staffroom and Additional Lavatory Accommodation.

Application for further details to County Architect, South-street, Durham, not later than 29th AUGUST, 1956.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

BOROUGH OF MACCLESFIELD.

FLAT AT HURDSFIELD HOUSE.

TENDERS are invited for the CONVERSION of the old DECONTAMINATION CENTRE at HURDSFIELD HOUSE into a BED-SITTING-ROOM FLAT.

Specifications and Form of Tender (obtainable from the Borough Architect, 3, Jordangate, Macclesfield) should be delivered to the undersigned in plain sealed envelopes endorsed "Flat at Hurdsfield House," not later than 12 o'clock noon on FRIDAY, 14th SEPTEMBER, 1956.

WALTER ISAAC,
Town Clerk.

Town Hall,
Macclesfield.

PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12 o'clock NOON, TUESDAY, PRIOR TO ISSUE

PUBLIC APPOINTMENTS

BOROUGH OF MANSFIELD.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for three vacancies in the Borough Engineer and Surveyor's Department. The salary will be in accordance with the National Joint Council's Scale according to qualifications and experience and the following conditions:—

1. N.J.C. Conditions of Service.
2. Local Government Superannuation Acts, for which purpose the selected candidate will be required to pass a medical examination.

Applications stating age, qualifications, present appointment, and salary, previous appointments and experience, together with the names and addresses of not more than three referees should be sent to the Borough Engineer and Surveyor, Carr Bank, Mansfield, and should be endorsed "Architectural Assistant." The closing date is 31st AUGUST, 1956.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

HAYES AND HARLINGTON URBAN DISTRICT COUNCIL.

Applications are invited for:—

(a) ARCHITECTURAL ASSISTANTS (PERMANENT) (two vacancies) within Grade A.P.T. II, i.e., £595—£675 per annum. (b) SENIOR ARCHITECTURAL ASSISTANT (TEMPORARY) within Grade A.P.T. IV, i.e., £710—£885 per annum, plus London "Weighting" in each instance, 21-25 years £20 per annum, 26 years and over £30 per annum. Candidates for (a) must have passed the R.I.B.A. Inter. Exam., good experience of housing work with local authority. Housing accommodation will be made available for one of these two appointments if necessary. (b) must be a Registered Architect, have good general experience in design and construction in relation to municipal housing and other works and capable of supervising large building contracts. Housing accommodation will be made available if necessary. Five-day week. Further particulars and form of application obtainable from the undersigned, which when completed, must be returned as soon as possible.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes,
Middlesex.

HACKNEY BOROUGH

COUNCIL Require the following engineering staff:

SENIOR ASSISTANT ENGINEER-A.P.T. VI/VII (£880-£1,200 per annum).

ASSISTANT ENGINEER-A.P.T. IV/V (£710-£970 per annum).

ENGINEERING ASSISTANT-A.P.T. II (£595-£675 per annum).

plus London Weighting allowance. The grades and commencing salaries of successful candidates will be fixed according to training, qualifications and experience.

Application form obtainable from the Town Clerk, Town Hall, London, E.8, returnable by 29th AUGUST, 1956, quoting reference K.3.

METROPOLITAN BOROUGH OF GREENWICH.

APPOINTMENT OF TWO SENIOR ASSISTANTS (ENGINEERING OFFICE).

Applications are invited for the appointments of two Senior Engineering Assistants in the Borough Engineer and Surveyor's Department. The salaries will be within the Grades A.P.T. IV-V (£740 to £1,000 per annum inclusive) and the commencing salary will be in accordance with qualifications and experience.

Candidates should be Chartered Engineers or Chartered Surveyors.

For one of the appointments experience as a Building Surveyor and in structural engineering is essential. For the second appointment candidates should have had at least five years' experience in the technical work of a Borough Engineer's Department, including surveying and road and sewer construction.

Application forms, obtainable from the undersigned, to be returned completed not later than 3rd SEPTEMBSR, 1956.

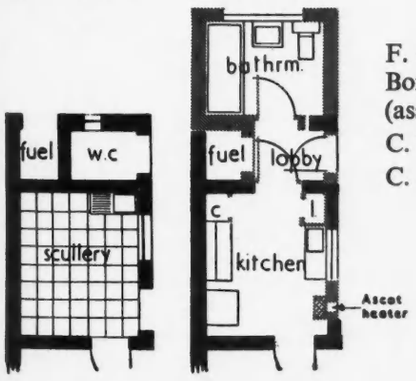
HAROLD WHETSTONE,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
August, 1956.

Ascot turns houses into homes

Four late nineteenth-century terrace houses at Beaconsfield Road, Walthamstow, had no hot water supply until Ascot multipoint instantaneous gas water heaters were installed as part of their conversion by the local Council. The dwellings were extended at the rear to house a bath, lavatory basin and w.c. To supply hot water to bath, lavatory basin and kitchen sink, the Ascots were fitted in the new kitchens where they could be installed unobtrusively and the pipe runs kept short. Plans of a kitchen before and after conversion are shown below.

BEFORE **AFTER**



RESPONSIBLE AUTHORITIES:

Walthamstow Borough Council.

F. G. Southgate, A.R.I.B.A., M.I.Mun.E., A.M.T.P.I.,
Borough Architect, Engineer and Surveyor.
(assisted by G. B. Innes, Chief Quantity Surveyor and War Damage Officer.)
C. W. Rayner, Housing Manager.
C. A. Kensett, M.I.Mun.B.M., Building Works Manager.

Insist on ASCOT *for hot water*

ASCOT GAS WATER HEATERS LIMITED · 255 NORTH CIRCULAR ROAD · LONDON NW10

OVER 900,000
now in use
EASY AND QUICK TO ASSEMBLE
LIGHT TO TRANSPORT
Some possible spans which can be obtained by joining the lattice section to a combination of the 2 metre or 2½ metre plate section
8′ 5″ to 13′ 2″
8′ 5″ to 14′ 9″
13′ 2″ to 18′ 0″
14′ 11″ to 19′ 8″
16′ 9″ to 19′ 8″
16′ 9″ to 24′ 7″

ADJUSTABLE CENTERING GIRDERS

all over the world!

The DSL Centering Girder is an outstanding achievement, which by a skilled combination of design and manufacture, provides the best type of support for suspended floor formwork.
The girder offers contractors unprecedented savings in time, labour and cost in supporting all types of floor construction.
2 components only are necessary for use in various combinations (see below)
(a) Lattice Section. (b) Plate Section.

Illustrated leaflet and details are available on request

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Telephone: Birchfields 6021.
London Office: 47 Victoria Street, S.W.1.
Telephone: Abbey 4077.
Also at Liverpool, Darlington, Glasgow, Swansea, Northern Ireland, Eire.
Australia:
Rapid Metal Developments (Australia) Pty. Ltd.
Bennet Avenue, Cudmore Park, Adelaide, S.A.
Telephone: UM 1271.

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For faster placing and better concrete use the

HUMDINGER

IMMERSION VIBRATOR

Here is an immersion vibrator that will cut your concrete-placing costs in a half-dozen ways. High vibrating frequencies of up to 12,000 r.p.m. give stronger concrete and speed up placing—and you can strike shuttering sooner. At the same time, the 'Humdinger' flexible shafts operate at QUARTER SPEED! And this means longer life and less maintenance—the drives just keep on running week after week. Plant records prove that contractors and civil engineers are changing to 'Humdinger' after seeing the difference they can make in concrete placing. Prove it for yourself by using one on your next vibrating job. You can have a 'Humdinger' on trial or hire (with option).

PETROL AND ELECTRIC MODELS AVAILABLE

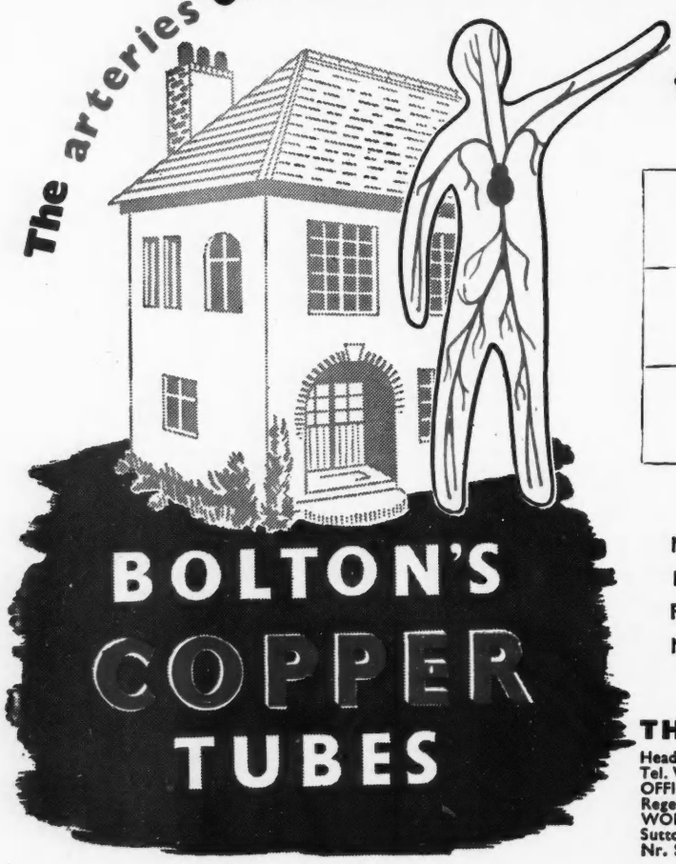
ACE MACHINERY LIMITED

VIBRATOR DEPT., PORDEN ROAD, BRIXTON, LONDON S.W.2. Telephone: BRIxton 3293 (9 lines)

HUMDINGER

Buy ACE and you buy **RELIABILITY**

The arteries of the Modern House - the advantages of Copper tubes for use in buildings



ECONOMICAL	EASY TO INSTALL
ATTRACTIVE APPEARANCE	RESISTANCE TO CORROSION
REDUCED RISK OF BURSTS	DELIVERY Stocks of Bolton's Copper Tubes are held at Froghall, Nr. Stoke-on-Trent; St. Helens, Lancashire; Glasgow, Belfast, London, Leeds and Newcastle.

Manufactured to comply with B.S.S. 659/1944 and 1386/1947 (For tubes to be buried underground). For further information please write for our Publication No. 122/R3 "Copper Tubes."

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Head Office: MERSEY COPPER WORKS, WIDNES, LANCS. Tel. Widnes 2022. Grams: "Rolls, Widnes." LONDON OFFICE & EXPORT SALES DEPT., 168 Regent St., W.1. Tel. Regent 6427/8/9. Grams: "Wiredrawn, Piccy, London." WORKS: LANCASHIRE: Mersey Copper Works, Widnes. Sutton Rolling Mills, St. Helens. STAFFORDSHIRE: Froghall, Nr. Stoke-on-Trent. Oakamoor, Nr. Stoke-on-Trent.

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COUNTY BOROUGH OF DEWSBURY.

BOROUGH ARCHITECT AND BUILDING SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of PRINCIPAL ASSISTANT ARCHITECT (Housing and General Section) at a salary in accordance with A.P.T. Grade V (£795-£970 per annum), the commencing salary to be fixed within the scope of this grade according to qualifications and experience.

Applicants should be Associates of the R.I.B.A. with good architectural experience and knowledge of local government procedure. Housing accommodation will be made available if required.

The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts. The successful applicant will be required to pass a medical examination.

Applications, stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than TUESDAY, 28th AUGUST, 1956, endorsed "Principal Assistant Architect."

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
31st July, 1956.

EAST ELLOE RURAL DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the above A.P.T. II appointment in the Architect's Department.

The appointment will be subject to the National Scheme of Conditions of Service and to the provisions of the Local Government Superannuation Acts. Housing accommodation will be made available if required.

Applications endorsed "Architectural Assistant," stating age, qualifications and experience, together with the names of two persons to whom reference may be made, must be forwarded to the undersigned not later than 31st August, 1956.

J. C. PYWELL,
Clerk to the Council.

Council Offices,
Mattimore House,
Holbeach,
Spalding, Lincs.

METROPOLITAN BOROUGH OF GREENWICH.

APPOINTMENT OF INSPECTOR OF WORKS.

Applications are invited for the appointment of Inspector of Works (unestablished) for the supervision of new housing projects.

Applicants must have a sound knowledge of the building trades and of the erection of houses and flats and the works of maintenance.

The salary payable will be based on the scale of Miscellaneous V (£590 to £650 per annum inclusive) and the commencing point will be according to qualifications and experience.

Application forms, obtainable from the undersigned, to be returned completed not later than 3rd SEPTEMBER, 1956.

HAROLD WHETSTONE,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
August, 1956.

ARCHITECTURAL ASSISTANTS and JUNIOR ARCHITECTURAL ASSISTANTS

required by HACKNEY BOROUGH COUNCIL for extensive programme of new housing, public baths, libraries and other public buildings. Appointments may be in grades A.P.T. I (£530-£610), A.P.T. II (£595-£675) or A.P.T.III (£640-£765) per annum, singly or combined, plus London Weighting allowance of up to £30 per annum. Candidates must be Probationers or Students of R.I.B.A. Grade and commencing salary according to training, qualifications and experience.

Application form obtainable from the Town Clerk, Town Hall, E.8, returnable by 29th AUGUST, 1956, quoting reference K.2.

LIVERPOOL REGIONAL HOSPITAL BOARD.

ASSISTANT ARCHITECT required for temporary appointment in the Department of the Regional Architect in connection with the design and construction of a new 1,000 bedded Mental Deficiency Hospital.

Salary scale £640 × £25 (4) × £30 (4) × £35 (2) to £930 p.a., which is subject to a recently negotiated increase of approximately 6 per cent.

The starting salary will be dependent upon age and experience, and the appointment will be terminable by one month's notice on either side.

Applications, stating age, experience, qualifications, present and past appointments and salary and names and addresses of three referees (two technical), to me not later than 24th AUGUST, 1956.

VINCENT COLLINGE,
Secretary to the Board.

19, James-street,
Liverpool, 2

METROPOLITAN BOROUGH OF SOUTHWARK.

Vacancy for SENIOR QUANTITY SURVEYOR, Borough Engineer and Surveyor's Department. Salary Grade A.P.T. VI (i.e., £910—£1,110 per annum, less £10 p.a. if under 26 years of age). Applicants should possess appropriate qualifications and be capable of taking charge of the Quantities Section of the department. They should be fully experienced in cost analysis, estimating, taking-off, abstracting and billing, measuring works in progress and settling final accounts. Local Government experience will be an advantage. Permanent post. Council's Conditions of Service and Superannuation Scheme apply. Medical examination. No housing provided. Canvassing will disqualify. Application forms obtainable from the undersigned. Closing date 4th SEPTEMBER, 1956.

E. J. PITT,
Town Clerk.

Southwark Town Hall
(Near Elephant and Castle
Underground Station),
Walworth-road, S.E.17.

BOROUGH OF SWINTON AND PENDLEBURY.

CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for this appointment in the department of the Borough Engineer and Surveyor. Salary within the Grades A.P.T. IV-V (£710-£970 per annum). Applicants must hold the final qualification of R.I.B.A. and be registered architects with good experience in municipal housing.

Details from Borough Surveyor, Town Hall, Swinton, Lancashire. Closing date for return of form of application 10th SEPTEMBER, 1956.

Canvassing disqualifies.

VINCENT COLLINGE,
Town Clerk.

CITY OF OXFORD.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Vacancies on permanent staff:—

(a) SURVEYING ASSISTANT, Grade IV A.P.T. Division (within the range £710—£885).

Housing accommodation provided.

Candidates must be qualified members of the Royal Institution of Chartered Surveyors or the Chartered Auctioneers' and Estate Agents' Institute and additional qualifications in Planning will be an advantage.

Varied duties in the Estates and Planning Sections of the Department, particularly with regard to acquisition of property in areas of redevelopment and economics of Planning, including compensation matters. Local Authority experience desirable.

(b) SURVEYING ASSISTANT (to deal with maintenance work and small alterations to all types of buildings). Grade: Special Classes of Officers (£690—£840 per annum).

Housing accommodation and car allowance.

Candidates should preferably be qualified members of the Royal Institution of Chartered Surveyors, although consideration would be given to applicants not yet fully qualified, in which case the salary would be at the appropriate lower level.

(c) PLANNING ASSISTANT (temporary in the first instance). Grade: Special Classes of Officers or Grade IV A.P.T. Division (within the range £690—£885).

Candidates must be qualified members of the Town Planning Institute, additional qualifications an advantage. Ability to deal on own initiative with general town planning problems desirable, although due consideration given to candidates with an aptitude in a particular field.

Further details and application forms, which must be returned by 31st AUGUST, from the City Architect and Planning Officer, Town Hall, Oxford.

Please indicate clearly for which post application is being made.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

NATIONAL COAL BOARD.

Applications are invited for the post of HEATING ENGINEER (BUILDING) Grade II in Edinburgh. The salary will be within the scale of £675 x £25-£950; and the point of entry will be according to the qualifications and experience of the successful candidate. Applicants should have at least attained the standard of Sections A and B of the examination for Associate Membership of the I.H.V.E. They must have received a sound technical training including drawing office experience and have a wide experience in designing and in the installation of all types of heating and ventilating plant, including large-scale steam boilerhouses, plenum warming and hot water supply systems. Applications, giving full details of age, education, qualifications, experience (in chronological order), present post and salary, should be forwarded to the Staff Department, 3, Eglinton-crescent, Edinburgh, 12, within 10 DAYS.

BOROUGH OF RHONDDA.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR, in the Department of the Borough Housing Architect, at a salary in accordance with Grade A.P.T. II (£595 × £20—£675).

Applicants should possess the Intermediate Examination R.I.C.S. (Quantities Sub-division) or I.Q.S., and should have practical experience in measurements for interim certificates and final accounts.

The appointment will be terminable by one month's notice on either side and will be subject to the National Scheme of Conditions of Service. The successful candidate will be required to pass a medical examination and will contribute to the Council's Superannuation Fund.

Applications, on forms to be obtained from the Borough Housing Architect, Mr. C. Gingell, A.R.I.B.A., A.R.I.C.S., 13, Ystrad-road, Pentre, Rhondda, accompanied by two testimonials, must be returned to the undersigned in plain envelopes, endorsed "Assistant Quantity Surveyor," so as to arrive not later than FRIDAY, the 31st AUGUST, 1956.

D. J. JONES, C.B.E.,
Town Clerk.

Municipal Offices,
Pentre,
Rhondda.
2nd August, 1956.

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

Architectural Staff:

(a) A.P.T. Grade IV (£710—£885 per annum);

(b) A.P.T. Grade III (£640—£765 per annum);

(c) A.P.T. Grade II (£595—£675 per annum);

(d) A.P.T. Grade I (£530—£610 per annum);

(e) Higher General Division (£180—£500 per annum).

Quantity Surveying Staff:

(f) A.P.T. Grade V (£795—£970 per annum).

Commencing salary will be according to qualifications and experience.

Permanent superannuable appointments subject to one month's notice and to medical examination.

National Conditions of Service.

Applicants must state for which post they are applying.

Application forms obtainable from, and to be returned to, The Borough Architect, The Council House, Corporation-street, Derby, not later than MONDAY, 27th AUGUST, 1956.

G. H. EMLYN JONES,
Town Clerk.

30th July, 1956.

METROPOLITAN BOROUGH OF LEWISHAM.

SURVEYING ASSISTANT.

BOROUGH ARCHITECT'S DEPARTMENT.

Salary Scale £700 rising to £870 p.a. (N.J.C. Special Scale, plus London "weighting"). Commencing salary according to experience and qualifications. Particulars and forms of application from Town Clerk, Lewisham Town Hall, Catford, S.E.6. Closing date 1st SEPTEMBER, 1956.

CITY OF BIRMINGHAM.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS, Grade A.P.T. V (£795/£970 per annum).

(b) ASSISTANT ARCHITECTS, Grade A.P.T. IV (£710/£885 per annum).

(c) ARCHITECTURAL ASSISTANTS, Special Classes, Ad hoc Scale (£690/£840 per annum).

(d) ARCHITECTURAL ASSISTANTS, Special Classes, Grade A.P.T. II (£615/£695 per annum).

(e) ARCHITECTURAL ASSISTANTS, Special Classes, Grade A.P.T. I (£550/£630 per annum).

Applicants for posts (a) and (b) must be Associate Members of the R.I.B.A., or hold equivalent qualifications, and for posts (c), (d) and (e), must be suitably qualified in accordance with the Regulations of the National Joint Council for Architectural Assistant.

The commencing salary in all grades will be according to capabilities and experience.

The posts are permanent, subject to a medical examination, to one month's notice on either side, and to the Provisions of the Local Government Superannuation Acts and the Birmingham Municipal Officers' Widows' and Orphans' Pensions Scheme.

Applications, endorsed with the heading of the post, stating age, present position and salary, qualifications and experience, together with the names of two persons to whom reference can be made, should reach the undersigned by not later than 31st AUGUST, 1956.

Canvassing disqualifies.

A. G. SHEPPARD FIDLER,
City Architect.

Civic Centre,
Birmingham, 1.

THE UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE.

Applications are invited for the post of ASSISTANT ARCHITECT on the staff of the Buildings Officer and Architect. Salary in the scale £595 x 20-£675 per annum. The post is superannuable. Duties may include work on buildings for teaching and research students' hostels, staff residences, general purpose buildings and services. Applicants must have reached intermediate R.I.B.A. standard. Further particulars may be obtained from the Registrar, The College, Keele, Staffs., to whom 3 copies of application giving full details of age, qualifications, experience, etc., and names of three referees should be sent within 10 days of publication of this advertisement.

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited, in an expanding office, for the following permanent appointments:—

(a) ARCHITECTURAL ASSISTANT, A.P.T. VI (£880—£1,080).

Applicants must be A.R.I.B.A. and will be required to work as a Group Leader on schemes consisting mainly of housing projects.

(b) ARCHITECTURAL ASSISTANTS (three posts), Grade A.P.T. V (£795—£970).

(c) ASSISTANT ARCHITECT, A.P.T. III—IV (£640—£885).

(d) ASSISTANT ARCHITECTS (three posts), A.P.T. III (£640—£765).

London weighting is payable in addition to the above. The Council is unable to assist with housing accommodation. Forms of application and conditions of appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne-road, Kilburn, N.W.6. Applications to be returned to the undersigned not later than 9 a.m. on MONDAY, 27th AUGUST, 1956. When writing for application forms candidates must state for which appointment they wish to apply.

R. S. FORSTER,
Town Clerk.

2nd August, 1956.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies for ARCHITECTS Grade III (up to £987), and ARCHITECTURAL ASSISTANTS (up to £818), for widespread construction programme which includes houses, blocks of flats, schools of all types, and various public and industrial buildings. Application forms and particulars from Architect (AR/EK/A/4), The County Hall, S.E.1. (1189)

UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE.

Applications are invited for the post of ASSISTANT ARCHITECT on the staff of the Buildings Officer and Architect. Salary in the scale £790 x 30-£880 per annum. The post is superannuable. Duties may include work on buildings for teaching and research, students' hostels, staff residences, general purpose buildings and services. Applicants must be Registered Architects. Further particulars may be obtained from the Registrar, The College, Keele, Staffs., to whom 3 copies of application giving full details of age, qualifications, experience, etc., and names of three referees should be sent within 10 days of publication of this advertisement.

HERTFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications invited for appointment of CHIEF ASSISTANT ARCHITECTS, (Section Leaders). Salary, Grade "A" (£1,145-£1,320). Commencing salary to be fixed in accordance with qualifications and experience.

Previous Local Government experience not essential. Applications giving detailed particulars of experience, qualifications, etc., and names of three referees to County Architect, County Hall, Hertford, Herts., not later than first post, 27th AUGUST, 1956.

CHESTERFIELD RURAL DISTRICT COUNCIL

invite applications for the appointment of QUANTITY SURVEYOR.

The salary will be according to qualifications and experience within the range A.P.T. I to Special Scale (£530-£840). Application forms from the Engineer and Surveyor, Rural Council House, Saltergate, Chesterfield, should be returned to the Clerk of the Council by 29th AUGUST, 1956, suitably endorsed. Housing assistance given.

H. O. HAWKINS,
Clerk of the Council.

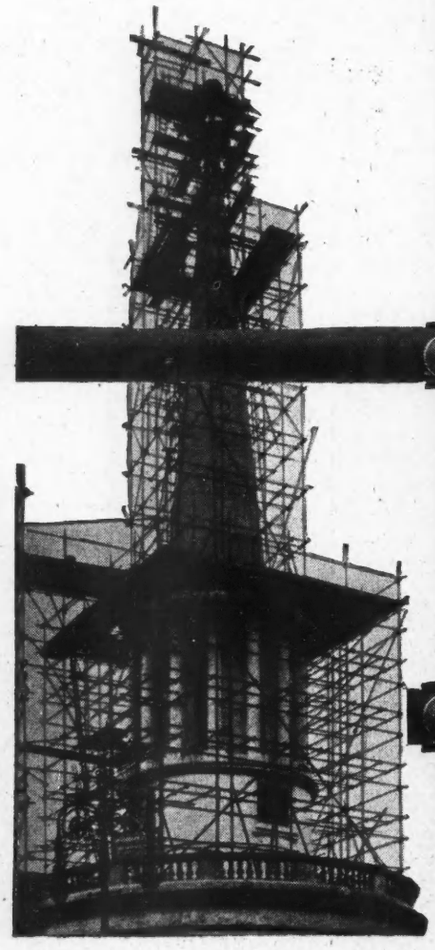
Rural Council House,
Saltergate,
Chesterfield.

Safety for Hire

The design and erection of scaffolding calls for specialised skill, so that the work for which it is required can be carried out with economy, ease, speed and, above all, safety. This skill springs from long experience—extending, in our own case, over more than a century.

The knowledge we have gained is at your disposal. However small or large your contract may be—whether you need Independent, Putlog, Cantilever, Birdcage or Slung Scaffolds, of tubular steel or alloy—we should be pleased to hire the materials to you or erect the particular type you require.

Our new illustrated Brochure covers every aspect of Scaffolding, Cradles, Bosun's Chairs, Tower Ladders and Builders' Plant—write for your copy today.



Scaffolding by Stephens & Carter Ltd

727-761 Harrow Road, London, N.W.10. Tel.: Ladbroke 1191 (7 lines).
Also at Carver Road, Herne Hill, S.E.24. Tel.: Brixton 5770.
Bordesley Green, Birmingham 9. Tel.: Victoria 1226.
Coronation Road, High Wycombe. Tel.: High Wycombe 3183.
Scotland: West Canal Street, Coatbridge. Tel.: Coatbridge 525.

AP/SC10

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited to fill the following newly created positions in the Building Regulation Division for work in connection with inspection and improvement of means of escape in case of fire:— 1 Grade II (salary up to £1,184), 3 Grade III's (up to £987), and 6 Assistants (up to £817), with starting rates according to experience and qualifications.

Particulars and application form returnable by 1st SEPTEMBER, 1956, from The Architect, (AR/EK/CG/4), County Hall, S.E.1. (1595).

CITY OF STOKE-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.

Vacancies for QUANTITY SURVEYORS on the permanent staff on Grades A.P.T. IV (£710-£885) and A.P.T. III (£595-£675) capable of Taking-Off and/or settlement of accounts.

Previous Local Government service not essential.

HOUSING ACCOMMODATION can be made available to suitable applicants.

Applications, stating date of birth and giving full details of qualifications, training and experience, to J. R. Pigott, T.D., F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, by FRIDAY, 31st AUGUST, 1956.

HARRY TAYLOR,
Town Clerk.

EAST BARNET URBAN DISTRICT COUNCIL.

CLERK OF WORKS (BUILDINGS).

Applications are invited for the appointment of a CLERK OF WORKS for supervision of new housing contracts, at an inclusive salary of £14 14s. 0d. per week.

Although the appointment is on the Engineer and Surveyor's temporary staff, it is anticipated that it will be of at least two years' duration.

Application Forms and Conditions of Appointment may be obtained from the Engineer and Surveyor, Town Hall, Station-road, New Barnet, Herts, to whom the completed forms should be returned by not later than the 1st SEPTEMBER, 1956.

BUCKS COUNTY COUNCIL.

Applications are invited for the post of CHIEF HEATING AND LIGHTING ENGINEER in charge of the Heating and Lighting Section of the County Architect's Department, J.N.C. Scale "B" (£1,185-£1,405 per annum) starting point in accordance with qualifications and experience of the successful applicant.

A weekly allowance of 25s. and return fare home once every two months may be paid for a period of six months to newly appointed married officers of the Council unable to find accommodation.

Applicants must be qualified heating and lighting engineers and have had considerable experience in the installation of heating and lighting schemes for schools or other large public buildings.

Application forms giving further particulars of the appointment are obtainable from the undersigned and returnable by 22nd SEPTEMBER, 1956.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury.
7th August, 1956.

SURREY COUNTY COUNCIL.

Applications invited for following appointments:—

(1) SENIOR ASSISTANT QUANTITY SURVEYOR, Grade IV, £880 x £40 to £1,080 p.a. plus £30 London allowance. Must be Chartered Quantity Surveyor with experience on major contracts, including adjustment of final accounts and directing staff.
(2) ASSISTANT QUANTITY SURVEYOR, Grade IV-VI, minimum £710, maximum £1,080, plus £30 L.A. p.a.
(3) QUANTITY SURVEYING ASSISTANT, Grade I-III, minimum £530, maximum £765 p.a., plus L.A.
(4) ASSISTANT ARCHITECT, Grade IV-VI, salary as (2) above.
(5) ARCHITECTURAL ASSISTANTS, Grade I-III, salary as (3) above.
(6) HEATING ENGINEERING ASSISTANT, Grade I-III, salary as (3) above.
(7) ELECTRICAL ENGINEERING ASSISTANT, Grade I-III, salary as (3) above.
(8) ASSISTANT STRUCTURAL ENGINEER, Grade IV-VI, salary as (2) above.
(9) STRUCTURAL ENGINEERING ASSISTANT, Grade I-III, salary as (3) above.

For (2) to (9) salary range of appointment and commencing salary will depend on experience and qualifications.

Full details, present salary and three copy testimonials to County Architect, County Hall, Kingston, as soon as possible.

CITY OF LEEDS EDUCATION COMMITTEE.

LEEDS COLLEGE OF ART.
Principal: E. W. TAYLOR, R.E., A.R.C.A.

SCHOOL OF ARCHITECTURE AND TOWN PLANNING.
Head: F. CHIPPINDALE, F.R.I.B.A.

Required as soon as possible, an ARCHITECT (man), school trained, as studio instructor and lecturer, with lively interest in design. Previous teaching experience not essential but sound office experience desirable.

Salary—Burnham Technical Scales for Senior Lecturer, at present £1,065 × £25—£1,215. Revised scale from 1st October, 1956, subject to final approval of new Technical Scales, £1,350 × £50—£1,550.

Application forms may be obtained from the undersigned and should be returned within 14 days of the appearance of this advertisement. Candidates who have applied previously need not reapply.

GEORGE TAYLOR,
Chief Education Officer.
Education Department,
Leeds, 1.

ADMIRALTY.

Vacancies exist for QUANTITY SURVEYING ASSISTANTS (Grade III and/or Grade IV) in the Civil Engineer-in Chief's Department at the following outport establishments:— Caerwent, Devonport, Liverpool, Portland, Rosyth.

GRADE III.

Applicants must have obtained either the Final Certificate of the City and Guilds of London Institute (Sections A and B) in Builders' Quantities, or the Ordinary National Certificate in Building, or the Licentiate Diploma of the Institute of Builders, or must supply proof of professional study to an equivalent standard; they must also have had five years' training and experience with a Quantity Surveyor, Building Contractor, Government Department or Local Authority and any time spent on an approved course of training at a Technical School will count towards this period.

Duties include abstracting and billing, measuring, preparing estimates, checking accounts and such other technical duties as may be allocated under the direction of a Professional Officer.

GRADE IV.

Applicants must have had at least 3 years' technical experience with a Surveyor or Building Contractor and any time spent on an approved course of training at a Technical School will count towards this period.

Duties include squaring dimensions and such other work relating to Contracts, bills, etc., not requiring Grade III qualifications, as may be allocated under the direction of a Professional Officer.

Posts are temporary and non-pensionable but have long term possibilities. Opportunities for the transfer to the established staff occur from time to time. Salary ranges are:—

Grade III—£671-£761 per annum.
Grade IV—£549-£676 per annum.

Entry normally at the above minima for candidates of Age 28 or over, with a reduction of £20 approximately for each year below that age. Rates quoted are London rates which are slightly lower in the Provinces. Five-day working week. Annual leave allowance 18 days.

Candidates, who must be British subjects, are invited to apply giving age, details of experience, etc., to Civil Engineer-in-Chief, Admiralty, Chamberlain-way, Pinner, Middlesex. Interview will be arranged locally.

DERBYSHIRE COUNTY COUNCIL.

APPOINTMENT OF PAINTING SUPERVISOR.

Applications are invited for the post of PAINTING SUPERVISOR on the permanent staff of the Works Department, at a salary within Misc. Grade VI of the National Salary Scales (£605—£670).

Applicants will be expected to provide a car, and will be paid in accordance with the County Council essential user's scale for 10 h.p. rating.

The appointment will be subject to the Local Government Superannuation Acts, to termination by one month's notice in writing on either side, and to the successful applicant passing a medical examination.

Applicants must have had considerable experience in supervising a large labour force covering the whole of the county, and a sound knowledge of estimating is essential.

Applications, stating age, qualifications and experience, together with either copies of two recent testimonials or names of persons to whom reference can be made, must reach the undersigned not later than 25th AUGUST, 1956.

Relationship to any member or officer of the Council must be disclosed, and canvassing directly or indirectly will be a disqualification.

W. R. STREFFORD,
County Works Manager.

44, Boulton-lane,
Alvaston,
Derby.
11th August, 1956.

OXFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

CLERK OF WORKS.

Applications are invited for this post to supervise construction of Secondary Schools at Charlbury and Burford, which are nine miles apart. The appointment is to one school with a travelling allowance to the other, and is expected to continue for a period of 15-18 months, and the person appointed is to own and maintain a car for this purpose. Salary acording to qualifications, but not exceeding £15 15s. per week, payable monthly in arrear subject to usual deductions. Applicants must have served a trade apprenticeship and have extensive practical experience in the Building Industry. Send full particulars, with names of two referees, to the County Architect, Park End-street Offices, Oxford, by the 1st SEPTEMBER, 1956.

GERALD GALE BURKITT,
Clerk of the Council.

County Hall,
Oxford.

AIR MINISTRY Require

TAKERS-OFF and WORKERS-UP in the Quantities Division, London. TAKERS-OFF must have wide experience of all classes of work. Salaries from £900-£1,640 according to age, qualifications and experience. WORKERS-UP must be fully experienced and competent to work up entire Bills of Quantities. Salaries from £635-£925 according to age, qualifications and experience. Quantity Surveyors, Assistant Quantity Surveyors and Quantity Surveying Assistants also required by other Government Departments, both in London and Provinces. Applicants should normally be natural British born subjects. Forms quoting J 231/6A from M.L.N.S., Technical and Scientific Register (K), 26, King-street, London, S.W.1.

INSPECTOR OF WORKS

Required by ADEN GOVERNMENT P.W.D. on contract for tour of 18 to 24 months in first instance. Salary according to experience in scale (including pay differential) £930 rising to £1,452 a year. Gratuity at rate £100/£150 a year. Outfit allowance £60. Free passages for officer and wife. Free passages for four children under age 18 or allowance up to £408 annually towards cost education in U.K. Liberal leave on full salary. Furnished quarters at reasonable rental. Candidates must have served apprenticeship and have sound knowledge and experience in supervision and measurement in all trades of building construction.

Write to the Crown Agents, 4, Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote: M2B/41725/BH.

EAST SUSSEX COUNTY COUNCIL.

QUALIFIED ARCHITECT Required on the permanent staff of the County Architect's Department. Salary within Grade A.P.T. IV (£710-£885) according to experience.

Candidates must be Associate members of the R.I.B.A.

Applications, stating age, experience and giving the names of two persons to whom reference can be made, to County Architect, County Hall, Lewes, by not later than 31st AUGUST, 1956.

BOROUGH OF SWINDON.

ARCHITECTURAL ASSISTANTS.

Applications are invited for the above appointments in the Borough Architect's Department, at a salary in accordance with A.P.T. Grade III (£640-£765 per annum). Applicants must have passed the Intermediate R.I.B.A. Examination.

Housing accommodation is available.

Applications on forms obtainable from the Town Clerk, Civic Offices, Swindon, must be returned not later than 1st SEPTEMBER, 1956.

THE POLYTECHNIC, 309 REGENT-STREET, W.1.

SCHOOL OF ARCHITECTURE, SURVEYING AND TOWN PLANNING.

Vacancies exist for TWO FULL-TIME TEACHERS: (1) with Architectural, Engineering or Surveying qualifications with interest in the technical and scientific aspects of the course, and (2) a studio master who should be an A.R.I.B.A. and a graduate of a fully recognised school of architecture.

Both posts are Grade B, Burnham (Further Education) Scale appointments, the salary scale at present having a maximum of £820 per annum, plus London allowance of £36 or £48 and additional allowances for graduateship and training. The proposed scale from 1st October next is considerably higher.

A form of application can be obtained by sending a stamped addressed foolscap envelope to the undersigned.

J. C. JONES,
Director of Education.

HAMPSHIRE.

Applications are invited for the following appointments in the County Architect's Department:—

(a) ASSISTANT ARCHITECT, Grade V (£795-£970).
(b) ARCHITECTURAL ASSISTANT, Grade III (£640-£765).

Candidates for appointment:—

(a) must have completed the final R.I.B.A. examination, with at least five years' good general experience in the design and construction of Public Buildings. The appointment will be terminable by three calendar months' notice on either side.

(b) must have passed the Intermediate R.I.B.A. examination or its equivalent at one of the recognised Schools of Architecture and have had suitable office experience.

The appointments are pensionable and subject to satisfactory medical reports. In approved cases the County Council are prepared to assist in meeting removal and other expenses.

Applications, on forms obtainable from the County Architect, The Castle, Winchester, should reach him by the 31st AUGUST.

COUNTY BOROUGH OF DONCASTER.

Applications are invited for the following vacancies in the Borough Architect's Department.

(a) ASSISTANT ARCHITECT, Grade V (£795 × £35—£970). Applicants must be Associates of the R.I.B.A. and have had five years' experience in design and working drawings.

(b) ARCHITECTURAL ASSISTANTS, Grade A.P.T. III (£640 × £25—£765). Applicants should have passed the R.I.B.A. Intermediate examination.

(c) TEMPORARY ARCHITECTURAL ASSISTANTS, Special Grade (£690 × £30—£840). Applicants should have passed the R.I.B.A. final examination.

The appointments offer scope for experience in large-scale central area redevelopments and educational projects, and preference will be given to those with a keen interest in contemporary design.

Housing accommodation will be available if necessary.

Forms of application can be obtained from the Borough Architect, L. J. Tucker, Esq., A.R.I.B.A., F.I.Hsg., 15, South-parade, Doncaster, and must be returned to the undersigned not later than 10 a.m. on MONDAY, the 3rd SEPTEMBER, 1956.

H. R. WORMALD,
Town Clerk.

1, Priory-place,
Doncaster.
8th August, 1956.

METROPOLITAN BOROUGH OF SOUTHWARK.

ARCHITECTURAL ASSISTANT Required on permanent establishment of Borough Engineer and Surveyor's Department. Salary in accordance with Grade A.P.T. II or III or National Joint Council Special Grade (i.e. within range of £625 per annum to £870 per annum, less £10 per annum if under 26 years of age), according to qualifications and experience. Appointment to fill a vacancy in a design group engaged on a large programme of new housing, mixed development and other schemes. Council's Conditions of Service and Superannuation Scheme apply. Medical examination. No Housing provided. Canvassing will disqualify. Application forms from the undersigned. Closing date 4th SEPTEMBER, 1956.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(near Elephant and Castle Underground station).
Walworth-road, S.E.17.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the post of SENIOR HEATING ENGINEERING ASSISTANT, Grade A.P.T. Div., Grade V—£795 x £35 to £970. Housing accommodation may be available.

Candidates must be Corporate Members of the Institution of Heating and Ventilating Engineers and have experience in the preparation of schemes and estimates for large-scale local authority housing, schools and other Municipal projects.

The appointment will be subject to the provisions of the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service so far as adopted by the Council. Successful candidates will be required to pass a medical examination.

Canvassing will disqualify. Any candidate who is related to a member or officer of the Council is required to disclose the fact.

Applications stating age, qualifications and experience, with the names of two persons to whom reference can be made, should be submitted to the Borough Architect, 30, Alexandra-street, Southend-on-Sea, by FRIDAY, 31st AUGUST, 1956.

ARCHIBALD GLEN,
Town Clerk.

The new (1953) office building of C. A. Parsons & Co., Ltd., at Heaton, Newcastle, has a total staff accommodation of 1,100. It stands on the site of the founder's first factory where 48 persons were employed in 1889. Oil-firing is used by Parsons in their very advanced office and factory space heating systems. The fuel is supplied by Shell-Mex and B.P. Ltd.

SPACE HEATING, TURBO ALTERNATOR TESTING, GAS TURBINE RESEARCH

Oil-Fuel used at C. A. Parsons & Co., Ltd.

AT THE HEATON, NEWCASTLE, plant of C. A. Parsons Ltd. over 6,000 people are now employed. Here turbo alternators of 100,000 kW have been built and even larger machines are under construction. Gas turbo alternators, turbo compressors, and transformers up to 275 KV are built also.

For heating the new office block (above) and the large factory buildings oil-fired boilers are used. The same system supplies steam for testing steam turbo-alternator plant.

The choice of oil-fuel rather than coal for a Newcastle plant is all the more noteworthy in view of the firm's vast experience in the science of heat. Oil-fuel is used also in the company's gas turbine developments.

In the offices, low-pressure hot water heating pipes are contained in ceilings. These are built up of aluminium units which serve to reflect the light from cold-cathode fluorescent tubes and are perforated to enable noise to be absorbed in sound- and heat-insulating material. The thermostatic controls are based on outside temperature.

Oil-fired heating eliminates the need for stoking and for ash and clinker disposal as well. It needs no more maintenance than a few minutes every few weeks — and there are no supply problems. With Britain already forced to import several million tons of fuel a year, one in four of today's solid fuel users may well have to convert to oil-firing by 1960. Shell-Mex and B.P. Ltd. have had more than forty years' experience in handling oil-fuel and in advising on its use. If you are interested in conversion or installation of this most efficient and flexible heating system, please write to Shell-Mex and B.P. Ltd., Fuel Oil Dept. 37W, Shell-Mex House, Strand, London, W.C.2.

COUNTY BOROUGH OF MIDDLESBROUGH.

Applications are invited for the following appointments in the Borough Engineer and Surveyors' Department, involving the preparation and execution of schemes in a large constructional and development programme.

(a) PRINCIPAL ASSISTANT ARCHITECT, A.P.T. VI (£880—£1,080). Must be A.R.I.B.A. or similar qualification and have good experience in design and supervision.

(b) SENIOR ASSISTANT ARCHITECT, A.P.T. V (£795—£970). Must be A.R.I.B.A. or similar qualification with good experience.

(c) ASSISTANT ARCHITECTS (FOUR), Special Scale, A.P.T. IV (£690—£885). Should have passed Final, or substantial parts, of R.I.B.A. or equivalent.

(d) QUANTITY SURVEYING ASSISTANTS (TWO), A.P.T. I-II (£530—£675). Practical experience in quantity surveying work following completion of recognised course of training.

(e) CHIEF TOWN PLANNING ASSISTANT, A.P.T. V (£795—£970). Must be A.M.T.P.I. and have a recognised qualification in Engineering, Architecture or Surveying, and experience in Town Planning practice.

(f) SENIOR ASSISTANT BUILDING SURVEYOR, A.P.T. V (£795—£970). Must be A.R.I.C.S. or A.M.I.Mun.E. and have had good experience in design and erection of new buildings and maintenance, adaptation and supervision of property.

(g) ASSISTANT BUILDING SURVEYOR, Special Scale, A.P.T. IV (£690—£885). Should have passed Final, or substantial parts, of R.I.C.S. or Inst. Mun.E.

(h) DRAUGHTSMAN, Misc. III-IV (£445—£575). Applicants must be competent draughtsmen.

All posts under N.J.C. Conditions and Superannuation Scheme. Starting salaries within the Grades will be determined according to qualifications and experience, which need not necessarily have been gained in the Local Government Service.

All posts on Special Scale, A.P.T. IV, are subject to automatic acceleration of increments amounting to £75 within the scale on attainment of corporate membership of the appropriate professional body, in addition to passing the final examination.

HOUSING ACCOMMODATION will be considered if the circumstances of the candidates and the post warrant it.

Application forms from J. A. Kenyon, M.I.C.E., M.I.Mun.E., M.T.P.I., Borough Engineer and Surveyor, Municipal Buildings, to be returned, together with copies of two recent testimonials, by TUESDAY, 11th SEPTEMBER, 1956.

BOROUGH OF CASTLEFORD.

QUANTITY SURVEYING ASSISTANT.

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department at a salary in accordance with Grade A.P.T. IV.

Applicants should hold a recognised professional qualification and should have had experience in the taking-off and preparation of bills of quantities for housing and other building work. Experience in the preparation of estimates for such works would also be of advantage.

The appointment is superannuable and the successful applicant will be required to pass satisfactorily a medical examination.

If required, housing accommodation will be provided for a successful married applicant.

Forms of application may be obtained from the undersigned and must be returned not later than the 8th SEPTEMBER, 1956.

Canvassing, either directly or indirectly, will disqualify.

E. HUTCHINSON,
Town Clerk.

Town Hall,
Castleford.

CITY OF PORTSMOUTH.

Applications are invited for the following appointments in the City Development Department:—

(a) GENERAL ASSISTANT—Grade I —£530-£610.

(b) GENERAL ASSISTANT—Higher General Division—£480—£500.

The work of the department includes the administration of the City Development Plan, the guidance of Urban development, Housing layouts, Redevelopment of war damaged and sub-standard housing areas, the accommodation of Overspill, and the location of industry.

Applications stating age, present position, qualifications and experience, together with the names of two referees, must be delivered to the undersigned marked "City Development Appointment" not later than 14th SEPTEMBER, 1956.

V. BLANCHARD,
Town Clerk.

City Council Chambers,
Portsmouth.

COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

BONUS SURVEYOR,
Grade II, £595-£675.

London weighting is paid in addition. Salary in excess of the minimum may be paid according to qualifications and experience.

Subsistence allowance may be granted over a reasonable period to the person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms returnable by 31st AUGUST, 1956, from the Town Clerk, Town Hall, East Ham, E.6.

COUNTY COUNCIL OF ESSEX.

Required on the established staff:—

(a) SENIOR ASSISTANT ARCHITECTS, Grade V, salaries not exceeding £970.

(b) ASSISTANT ARCHITECTS, Grade IV, salaries not exceeding £885.

(c) ASSISTANT ARCHITECTS in Special Grade, salaries not exceeding £840.

(d) ARCHITECTURAL ASSISTANTS, Grade II, salaries not exceeding £675.

Candidates for appointments (a) and (b) must be Associates of the R.I.B.A., and for (c) must have passed Parts I and II of R.I.B.A. Final.

Commencing salary in each case according to qualifications and experience.

The appointments offer opportunities for design and supervision on a variety of buildings—colleges, libraries, day and boarding schools, police and fire stations and health buildings—successful candidates will have much responsibility within the group system.

Application forms from H. Conolly, C.B.E., F.R.I.B.A., County Architect, County Hall, Chelmsford, (state post for which form is required) to be returned with copies of three testimonials by 7th SEPTEMBER, 1956.

Canvassing disqualifies.

APPLICATIONS are invited by the National Coal Board for the following vacancy:—

ARCHITECTURAL ASSISTANT, Grade 2, No. 4 (Carlton) Area, Grimethorpe, near Barnsley.

Salary scale according to qualifications and experience. Applicants should have passed the Intermediate R.I.B.A. Examination and have a working knowledge of specifications and be able to prepare drawings from scale plans for alterations and modifications of existing buildings and new works. An ability to measure builders' work will also be an advantage. Applications to Area Staff Manager, N.C.B., N.E. Div., No. 4 (Carlton) Area, Grimethorpe, near Barnsley, not later than 8th September, 1956.

CITY OF SHEFFIELD.

CITY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF SENIOR ASSISTANT QUANTITY SURVEYOR.

Applications are invited from appropriately qualified persons for the above appointment on the permanent staff of the City Architect, Mr. J. L. Womersley, F.R.I.B.A., M.T.P.I. (Chief Quantity Surveyor—Mr. A. W. Lancaster, A.R.I.C.S., A.I.Arb.). Salary Grade A.P.T. V (£795—£970).

The post is in the Education and General Group of the Quantity Surveyor's Section dealing with schools and all classes of public buildings. Considerable scope and experience for enthusiastic and progressive Quantity Surveyors possessing a thorough knowledge of the preparation of Bills of Quantities in all stages for major works, estimates and final accounts, and capable of working throughout with minimum supervision.

Applications, stating age, education and training, qualifications, present and past appointments (with dates and salaries), experience and the names of two persons to whom reference may be made, should reach me by MONDAY, 3rd SEPTEMBER, 1956.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.

COUNTY BOROUGH OF MIDDLESBROUGH.

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department.

(a) BUILDING INSPECTOR, A.P.T. II (£595—£675). Applicants should possess a Diploma in Building Inspection and be fully conversant with the administration of building bye-laws.

(b) DISTRICT HIGHWAYS INSPECTORS (TWO), Misc. V (£560—£620). Applicants must have had good all-round experience in Civil Engineering Works by Direct Labour, including all types of highways construction and maintenance, and be capable in the control of men and use of mechanical plant.

N.J.C. Conditions and Superannuation Scheme. Starting salaries within the Grades will be determined according to qualifications and experience, which need not necessarily have been gained in the Local Government Service.

Application forms from J. A. Kenyon, M.I.C.E., M.I.Mun.E., M.T.P.I., Borough Engineer and Surveyor, Municipal Buildings, to be returned, together with copies of two recent testimonials, by TUESDAY, 11th SEPTEMBER, 1956.

CITY OF NORWICH.

CITY ENGINEER'S DEPARTMENT.

ASSISTANT BUILDING INSPECTOR.

Applications are invited for the appointment on the permanent staff of Assistant Building Inspector in Grade I of the A.P.T. Division (£530 per annum rising to £610). Applicants must be suitably qualified and must have had experience in a Building Inspector's Office with full knowledge of building bye-laws and the various Acts appertaining to the duties of a Building Inspector.

The appointment is terminable by one month's notice on either side and subject to the provisions of the Local Government Superannuation Act, 1953. The successful candidate will, therefore, be required to pass a medical examination. Relationship of applicant to members of the Council or staff must be declared in the application. Canvassing, directly or indirectly, will be a disqualification. Applicants should state age, qualifications, training, experience, present and previous positions, giving salaries and dates, together with names of three referees.

Applications should be delivered to H. C. Rowley, M.I.C.E., City Engineer, at the City Hall, Norwich, not later than 10 a.m. on SATURDAY, 1st SEPTEMBER, 1956.

HORNCHURCH URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of a PERMANENT DISTRICT FOREMAN. The rate of wages will be 4½d. per hour above the prevailing rate for craftsmen as fixed by the Joint Negotiating Committee for Local Authorities' Services (Building & Civil Engineering Craftsmen). The present wage is £10 9s. per week.

Applicants must have had considerable practical experience in the Building Trade, and be competent to prepare detailed Works Orders for, and estimates of the cost of building construction and maintenance work, and organise and supervise its execution by all trades.

Hours of duty are 44 per week of 5 days. 5½ days during the Mid-Winter period.

Annual leave is 18 working days; the post is pensionable and subject to termination by one month's notice on either side.

The successful candidate will be required to pass a medical examination.

Applications on forms to be obtained from the undersigned must be received not later than SATURDAY, 25th AUGUST, 1956.

P. L. COX,
Clerk of the Council.

Council Offices,
Billet-lane,
Hornchurch,
Essex.
August, 1956.

COUNTY BOROUGH OF STOCKPORT.

INSPECTORS OF WORKS Required in Borough Architect's Department for Maintenance Section. Must possess sound all-round knowledge of the building industry. Salary £560-£620 per annum according to qualifications and experience (N.J.C. Misc. Grade V). Applications with full particulars, and names and addresses of two referees, to Borough Architect, Town Hall, Stockport, by 1st SEPTEMBER, 1956, quoting Ref. IW.5. Posts pensionable, subject to medical examination. Canvassing disqualifies. Applicants must disclose whether related to any member or senior officer of Council.

CITY OF LIVERPOOL.

ARCHITECTURAL AND HOUSING DEPARTMENT.

Applications are invited for the appointment of SENIOR ASSISTANT QUANTITY SURVEYOR. Salary £795-£970 per annum (A.P.T. Grade V). Candidates should possess the Final Examination of the R.I.C.S. or equivalent qualification.

Application forms, obtainable from the City Architect and Director of Housing, Blackburn Chambers, Dale-street, Liverpool, 2, must be returned to him by 31st AUGUST, 1956.

The appointment is superannuable and subject to the Standing Orders of the City Council. Canvassing disqualifies.

THOMAS ALKER,
Town Clerk.

NATIONAL COAL BOARD.

NORTHERN (N. & C.) DIVISION.

Applications are invited for an ARCHITECT to take charge of a group in the Divisional Architect's office. Salary within the scale of £1,000 x £35—£1,300. Applicants must be Associates of the R.I.B.A. with at least five years' office experience, after qualification, in the design and administration of large building schemes.

Applications, stating age, training and giving full details, including salaries of past and present appointments, should be submitted not later than 28th AUGUST, 1956, to Divisional Chief Staff Officer, NATIONAL COAL BOARD, Northern (N. & C.) Division, Whitley-road, Longbenton, Newcastle upon Tyne, 12.

Let ARUP & ARUP do your excavating on contract

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Arup & Arup Limited, Colquhoun House, Broadwick Street, London, W.1. Phone: GERrard 2708 (5 lines)

A VACANCY exists for an ARCHITECTURAL ASSISTANT, Grade II. Salary £520 x £20 to £615.

Applications, quoting reference EV 100, to be submitted within seven days of publication to Divisional Chief Staff Officer, NATIONAL COAL BOARD, Staff Department, 7, Side, Newcastle on Tyne, 1.

MIDDLESEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

CLERK OF WORKS required for Harlington Secondary Modern School; salary £625 per annum, inclusive, subject to review. Unestablished, superannuable subject to medical assessment and prescribed conditions. Application forms (stamped addressed foolscap envelope) from County Architect, 1, Queen Anne's Gate Buildings, Dartmouth-street, Westminster, S.W.1, returnable by 28th AUGUST. (Quote T.395B.) Canvassing disqualifies.

COUNTY BOROUGH OF OLDHAM.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited from suitably qualified persons for the above appointment, at a salary in accordance with Grade A.P.T. IV (£710-£885), commencing salary according to experience.

The National Conditions and Local Government Superannuation Acts apply. Housing accommodation available if required.

Applications, suitably endorsed, together with the names and addresses of two referees, should reach me not later than TUESDAY, 4th SEPTEMBER, 1956.

A. L. HOBSON,
Borough Engineer and Surveyor.
75, Union-street,
Oldham.

A VACANCY exists for an ARCHITECTURAL ASSISTANT in the War Department at H.Q. Mid West District, Shrewsbury. Qualifications equivalent of the Ordinary National Certificate or higher. At least three years' practical experience in a drawing office. Salary Scales Age 21—£470 increased by £25 to £585-£30 to £730. Particulars from the Chief Engineer, H.Q. Mid West District, Belle Vue, Shrewsbury.

COUNTY BOROUGH OF DONCASTER.

Applications are invited for the following vacancies in the Borough Architect's Department.

(a) ASSISTANT QUANTITY SURVEYORS, Grade A.P.T. V (£795 x £35-£970). Applicants must be Associates of the R.I.C.S. and have had good experience in the preparation of Bills of Quantities for all types of work, valuation for interim certificates and the settlement of final accounts.

(b) QUANTITY SURVEYING ASSISTANT, Grade A.P.T. III (£640 x £25-£765). Applicants must have passed the R.I.C.S. Intermediate examination and be competent to assist in the preparation of Bills of Quantities and the settlement of accounts.

Housing accommodation will be available if required.

Forms of application can be obtained from the Borough Architect, L. J. Tucker, Esq., A.R.I.B.A., F.I.Hsg., 15 South Parade, Doncaster, and must be returned to the undersigned not later than 10 a.m. on MONDAY, the 3rd SEPTEMBER, 1956.

H. R. WORMALD,
Town Clerk.

1, Priory-place,
Doncaster.
8th August, 1956.

COUNTY COUNCIL OF ESSEX.

ASSISTANT QUANTITY SURVEYOR (Working-Up) A.P.T.D. II, Required on established staff, salary according to qualifications and experience not exceeding £675.

Application form from H. Conolly, County Architect, County Hall, Chelmsford, to be returned with copies of three testimonials as early as possible.

Canvassing disqualifies.

NORTH RIDING EDUCATION COMMITTEE.

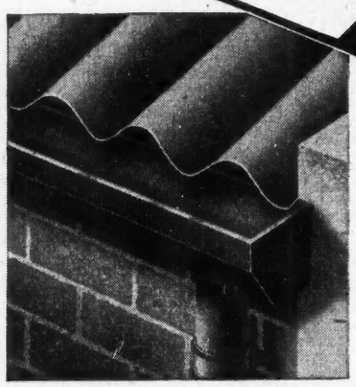
CLERKS OF WORKS required for the erection of the following new Schools:—

(1) STOKESLEY GRAMMAR AND MODERN.
(2) RICHMOND COUNTY MODERN.
(3) REDCAR WEST COUNTY MODERN.

Salary scale £620 x £20—£700. Previous experience may be taken into account in fixing commencing salary. Lodging allowance where necessary. Forms and particulars from the undersigned. Completed forms to be returned as soon as possible.

F. BARRACLOUGH, County Hall, Northallerton.

IF YOU BUILD LOOK INTO THIS



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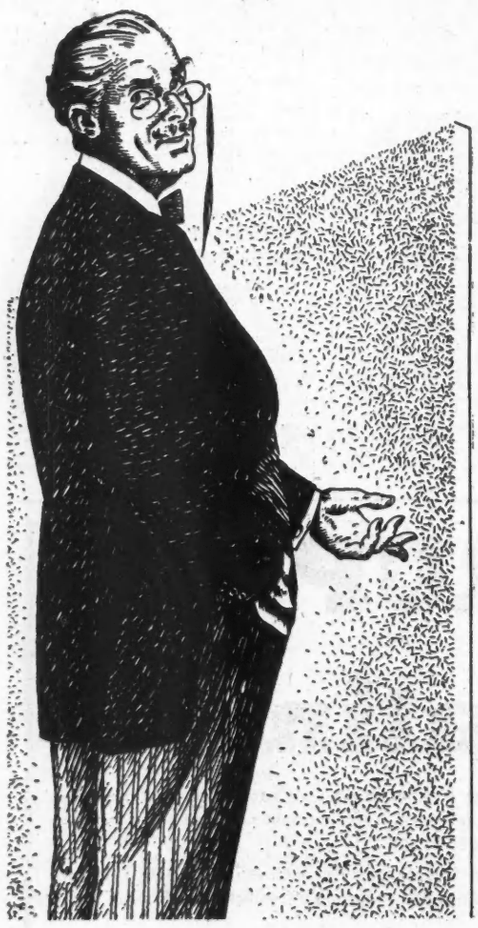

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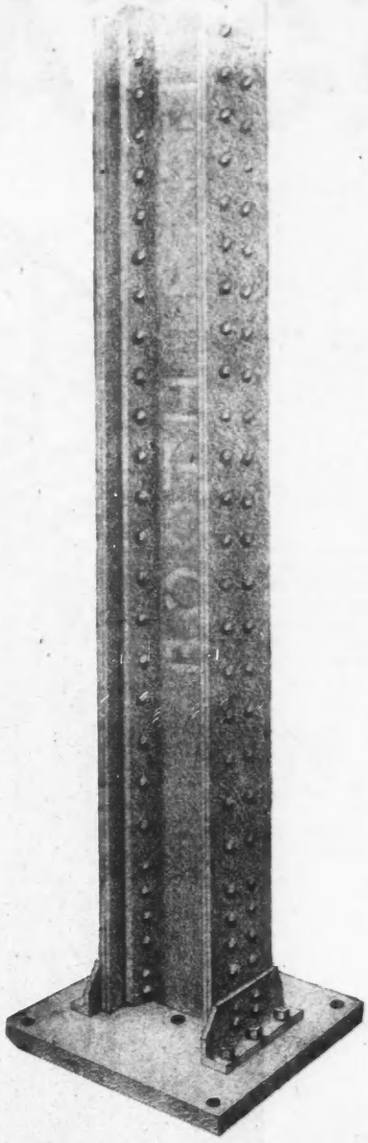

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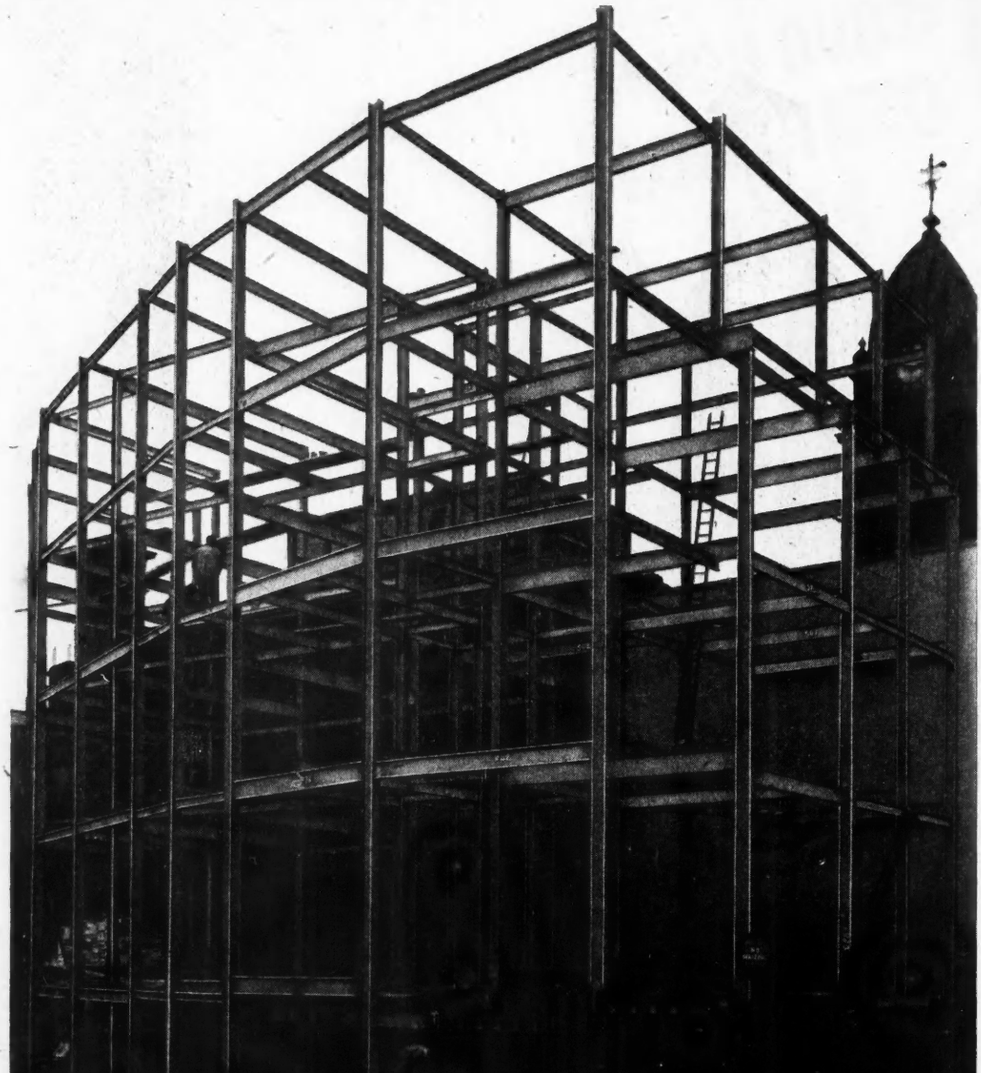

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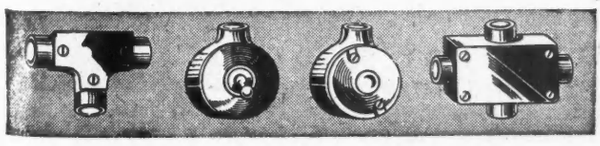
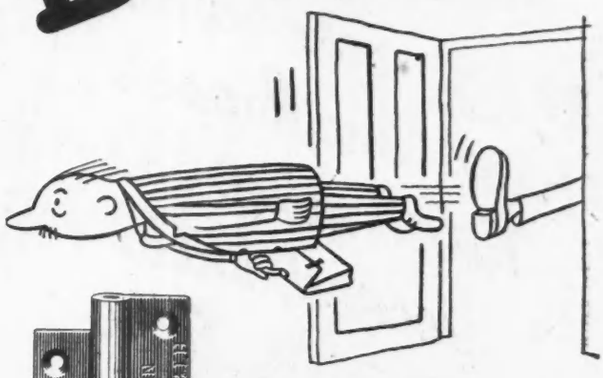
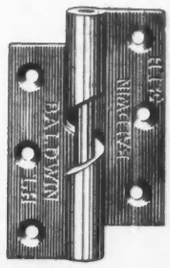


BANG!





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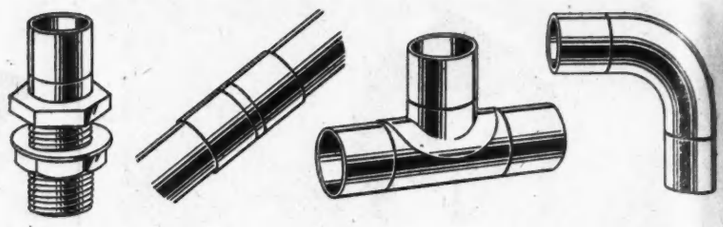
Representative for Northern Ireland and Eire:
OSWALD McMULLEN, 100 BALMORAL AVENUE, BELFAST. Phone 67340



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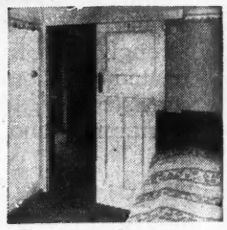

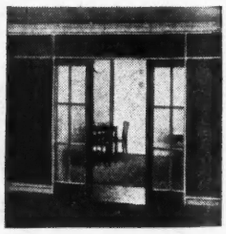

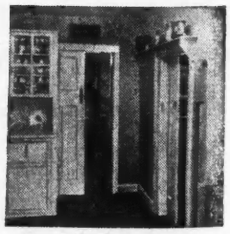

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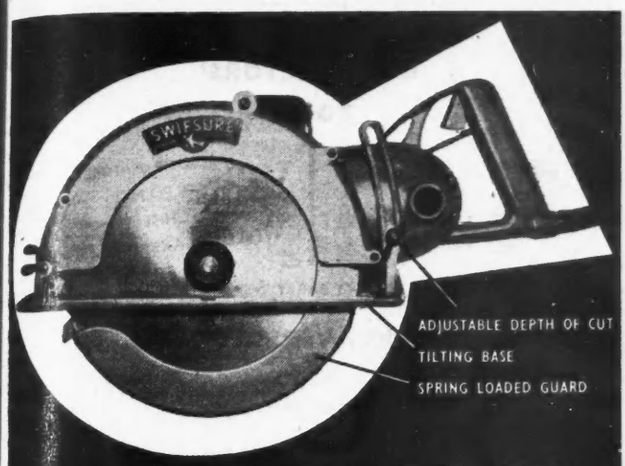

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Also, by substituting a carborundum disc, for the steel saw blade, many other materials such as asbestos sheeting, bricks, concrete, steel, etc., may be easily and economically cut.
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10 times faster and just as versatile. 4" blade ⅛" cut. Finger screw adjustment. Cuts across the grain and end grain without splintering. Ask for details of the

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- Laying speed 8-10 sq. yds. per man hour.
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- Safe load 40 lb. per sq. ft. (24-gauge).
- No fixing holes through roof surface.
- Exceptionally light weight.
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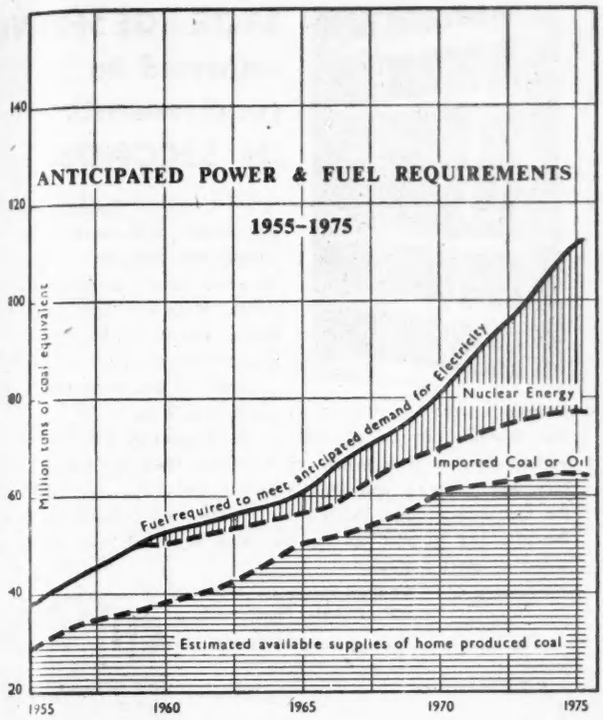

Electricity from Nuclear Energy

A 20-year development programme

Britain's nuclear power station construction programme will go far to offset the growing shortage of coal in the next two or three decades.

The First Ten Years

Work will start on the first two nuclear power stations in 1957. These will each have two gas-cooled reactors and the stations will be in operation by 1960/61. Two further gas-cooled reactor stations — each housing two reactors of improved type — to be begun in 1958/9 will come into service by 1963. The output of these four stations will be between 400,000-800,000 kilowatts.

The construction of two groups of four stations each will begin in 1960 and 1961/2 and they will be supplying electricity to the Grid by 1963/4 and 1965 respectively. The first group of stations will probably have one gas-cooled reactor each. The second will probably utilise liquid-cooled reactors — one high-rated reactor each. These stations will add well over 1,000,000 kilowatts to the nation's power resources.

The Second Ten Years

By 1975, it is anticipated that nuclear reactor power stations in Britain will have an aggregate installed capacity of between 10,000,000 and 15,000,000 kilowatts. Since these stations will be operated as base load stations working at full output for twenty-four hours a day they will be responsible for possibly half the units generated in the country.

In ten years' time—1,500,000 to 2,000,000 kilowatts of nuclear power. In twenty years' time—10,000,000 to 15,000,000 kilowatts of nuclear power, equivalent to 40-50,000,000 tons of coal a year.

Mr. SMITH, technologist with a large firm of constructional engineers, gives a trainee a tip about anti-rust precautions

"What you need for this kind of job is a bituminous paint..."

"...and the bituminous paint you'll be using in this firm is Presomet."

"*Presomet?*"

"Yes—it's a by-product of coal, made by the National Coal Board—and it's better, we find, than ordinary bituminous paints because it's constant in quality. It's cheaper too, which is an important point."

"*What's the advantage of Presomet over ordinary paint?*"

"Well, it's like this. Many ordinary paints absorb water readily under certain conditions. Now when such paints are applied to iron or steel, this moisture spreads over the surface of the metal, and you may get the paint lifting up into a bubble and cracking; and of course the metal begins to rust."

"*You mean the water actually gets between the paint and the metal?*"

"Yes—and another thing. By electrolytic action the moisture causes rust at any point liable to attack, such as a trace of pitting. Then the rust builds up, and the paint bulges and cracks."

"*So that's why you sometimes get little lumps of rust under the paint film?*"

"Exactly—but with Presomet it's different. Not only does it adhere strongly to the metal surfaces, but it absorbs very little moisture; and electrolytic action will not take place unless moisture is present. So you don't get the same tendency to lifting and blistering."

Three Grades: Presomet is made in light, medium and heavy grades—the latter for the most severe conditions of service. It has great covering power, and is readily applied by unskilled labour, forming a glossy black coat resistant to wear and rough usage.

Further information and technical advice on any proposed application of Presomet will gladly be given on request

NCB **Presomet**

Manufactured from British coal by:—

NATIONAL COAL BOARD

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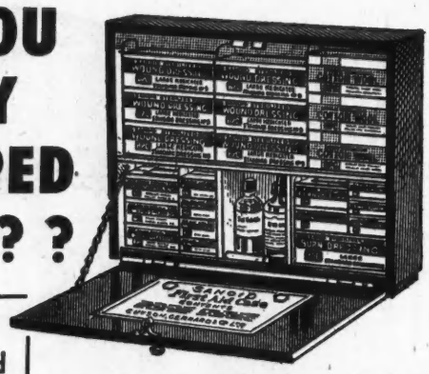
"Presomet" is a Registered Trade Mark

ARE YOU FULLY EQUIPPED ??????



The First Aid Outfit illustrated is in accordance with S.R. & O 1938, No. 486 (Standard outfit B) for concerns in which mechanical power is used, and in which the number of persons employed exceeds ten but does not exceed fifty.

Price: A182W 42/6 each, complete; carriage paid.

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The Factories' Act, 1937, stipulates that First Aid arrangements are required in ALL CONCERNS to which the Act applies. Statutory requirements vary according to the number of employees and nature of the work carried out. As pioneers of Industrial First Aid, established in 1878, we shall be pleased to advise and supply you with the appropriate equipment.

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Cuxson, Gerrard & Co. Ltd.
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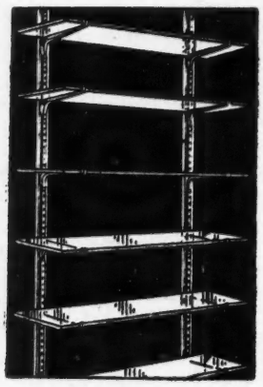
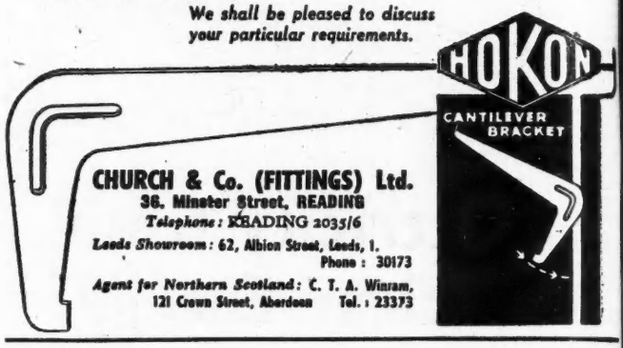


STORAGE SHELVE adjusted to requirements— IN SECONDS!

Hokon Cantilever Brackets are the perfect space-savers for warehouses, factories, offices, libraries and department stores. Made from light alloy, these sturdy light-weight brackets are supplied in both commercial and high-grade finishes in sizes 6 in., 9 in., 12 in., 15 in. and 18 in.

The Brackets can be inserted in the supporting columns at various heights in a matter of seconds. They are perfectly safe, hard wearing and look attractive and tidy. Just insert the top anchor hook, depress the bracket and it locks itself! Brackets and support are non-corrosive and will take either wood or glass shelves.

We shall be pleased to discuss your particular requirements.



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PAINT REMOVER

(non-inflammable)

now available in two grades for water washing or (the original) for spirit washing after stripping.
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Harmless to skin, boots and brushes; can be used on vertical and horizontal surfaces indoors and out.
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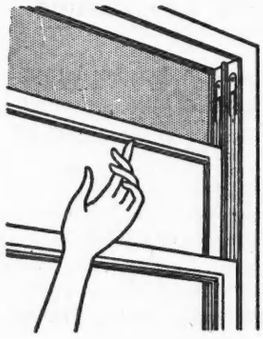
TELEPHONE 53256 (3 LINES) TELEGRAMS "SPECIALIST" FISHPONDS



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glide at a touch

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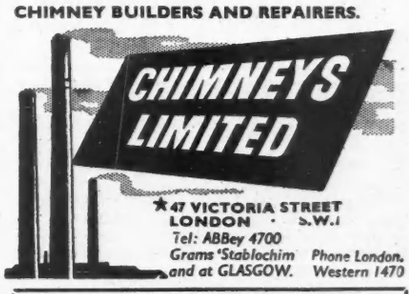

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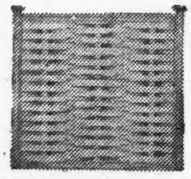

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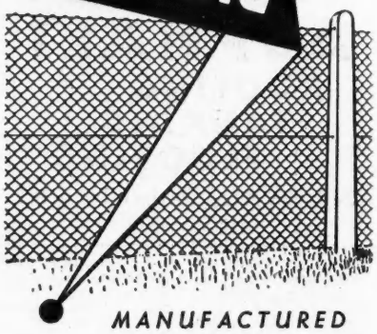

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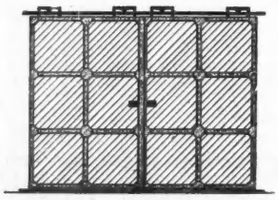

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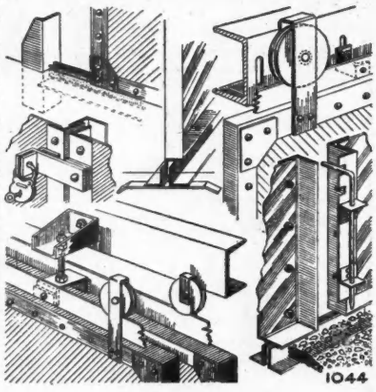

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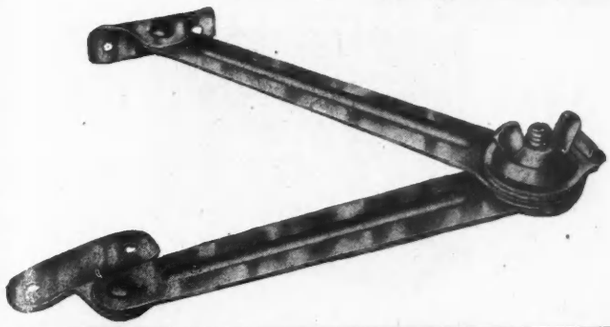

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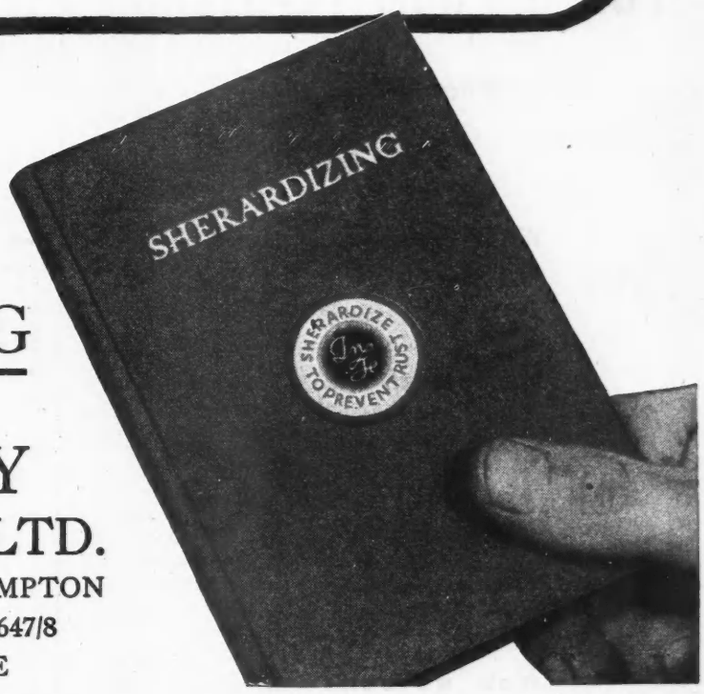

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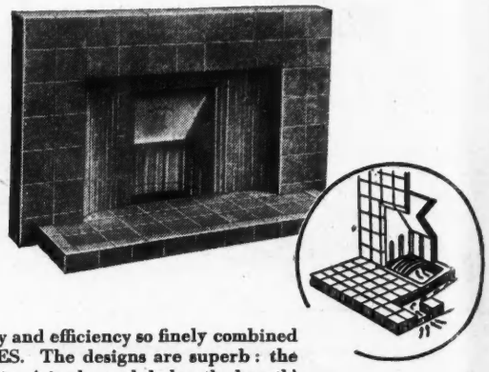

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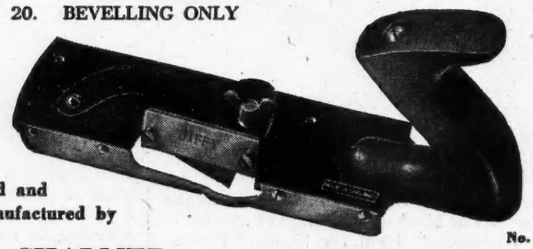

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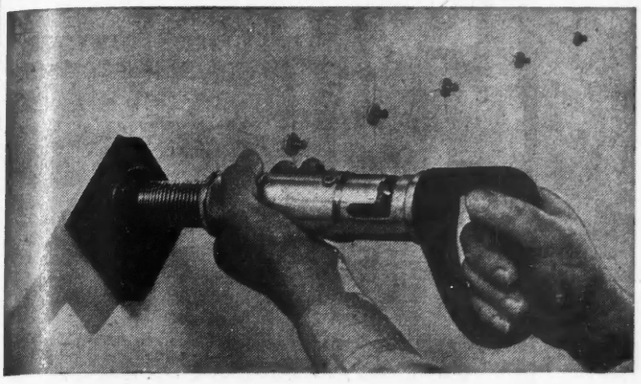

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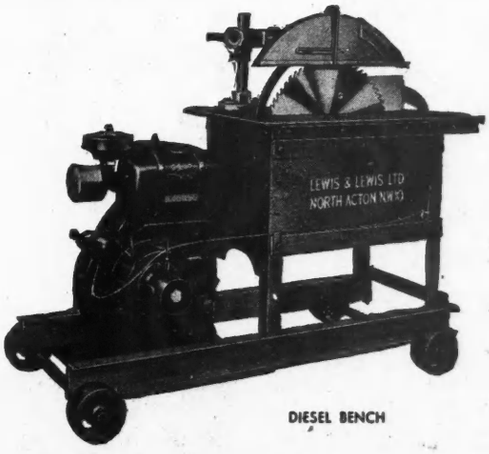

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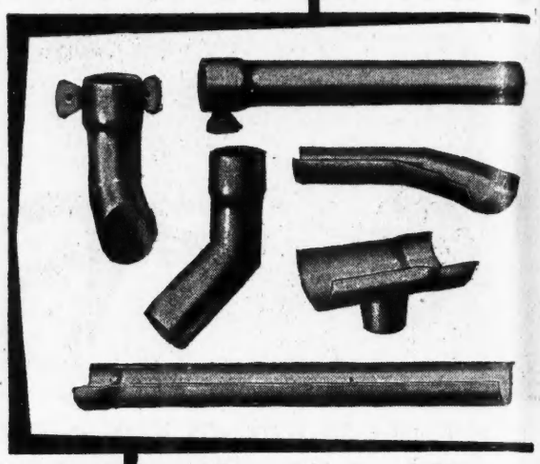

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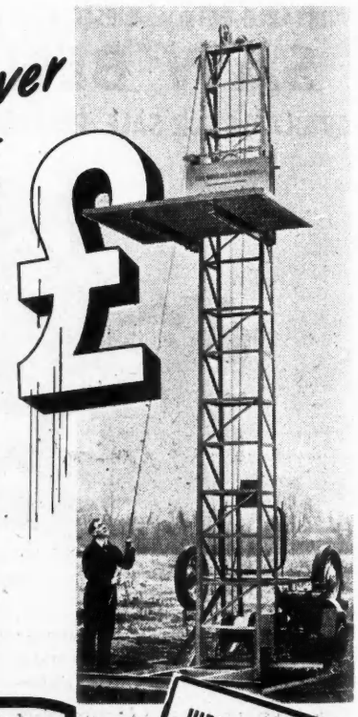

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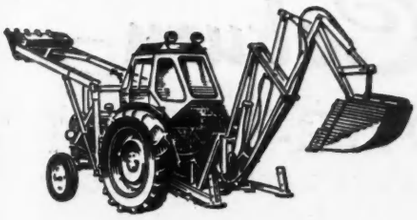

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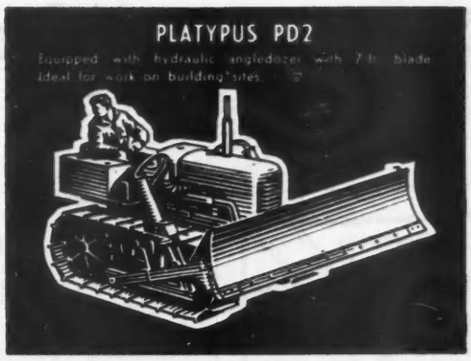

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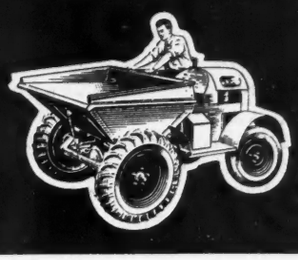

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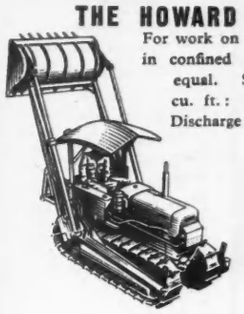

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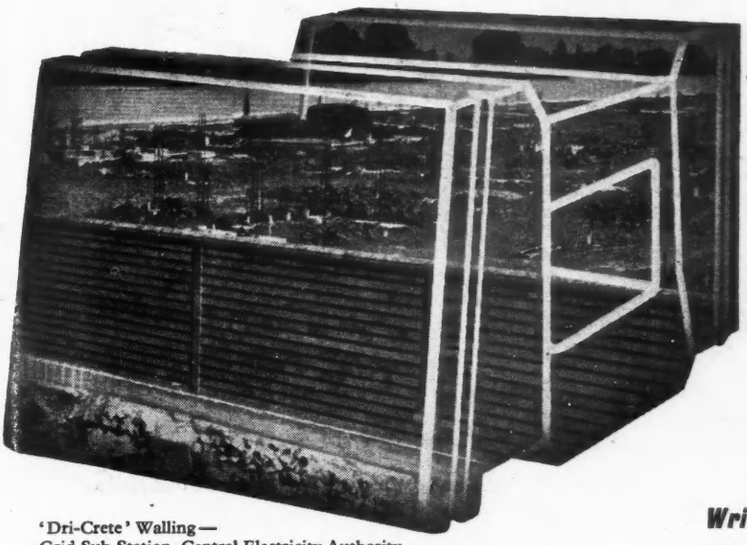

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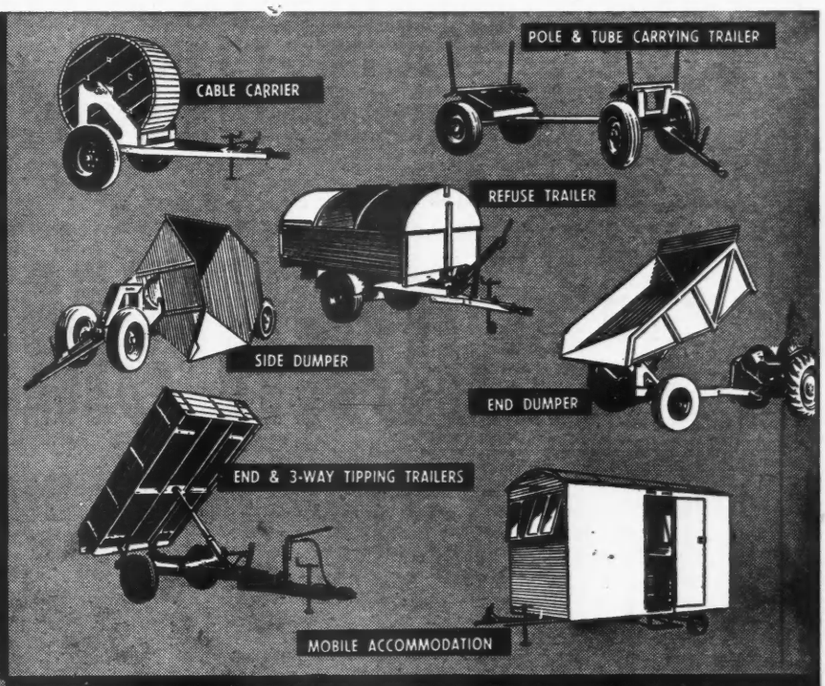

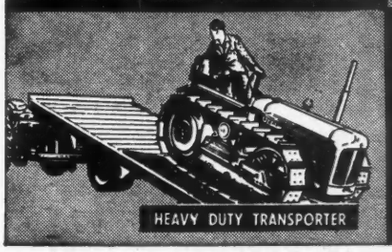

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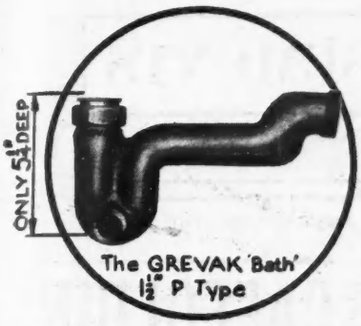

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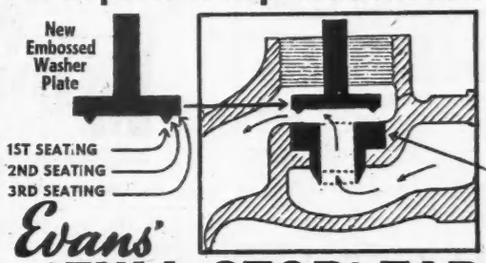

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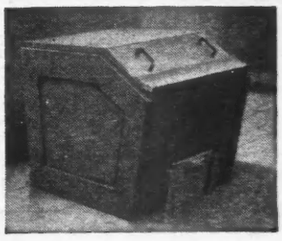

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10ft. x 10ft.	2	10	0	15ft. x 15ft.	6	0	0
12ft. x 10ft.	3	0	0	18ft. x 15ft.	6	15	0
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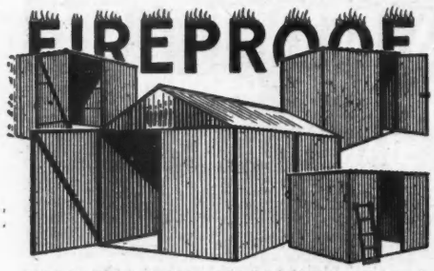

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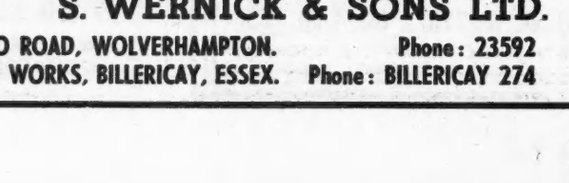

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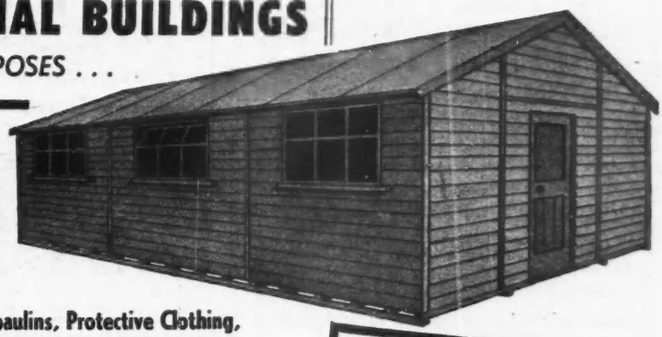

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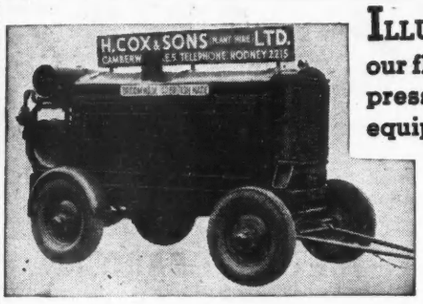

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The positions are permanent, progressive and pensionable. Only those possessing the requisite qualifications please write, giving full details and stating salary required, to:

BOX 931, "THE BUILDER"

EXPERIENCED Civil Engineering DRAUGHTSMAN-TRACER Required by Westminster Consulting Engineers. High salary and good prospects for suitable applicant. Write, stating age, and details of experience.—Box 3338, "The Builder."

THE LONDON ASSOCIATION OF BUILDERS' FOREMEN AND CLERKS OF WORKS

Memorial Hall, Farringdon Street, London, E.C.2

★ Provides against Unemployment & Death
★ Pensions for Aged Members or widows
★ Applications for Membership invited

Experienced Foremen and Clerks of Works can be obtained by applying to the Secretary,
Mr. J. S. Rigden
50, Warren Road, Banstead, Surrey
Burgh Heath 1312

CADBURY BROS. require a STRUCTURAL ENGINEERING DRAUGHTSMAN experienced in the design and construction of high-class industrial buildings in steel and reinforced concrete. Accommodation will be available.—Write, stating age, qualifications, and salary required, to E. M. A. CADBURY BROTHERS, Ltd., Bournville, Birmingham.

DRAUGHTSMEN, DETAILERS & ASSISTANT SECTION LEADER Required with experience of reinforced concrete, precast or in situ and/or general building construction, in the Flooring Department of our Bristol Office. Five-day week. Superannuation Scheme.—Please reply stating age and experience to THE TRUSSED CONCRETE STEEL CO., Ltd., 17, Orchard-street, Bristol, 1.

PREFABRICATED TIMBER STRUCTURES. Chief of Drawing Office of East Midland manufacturing concern requires Deputy. This responsible and interesting position offers good salary, pension scheme and congenial working conditions. If you have Structural, Architectural, Production, Drawing Office experience and sound knowledge of Building Construction, preferably in connection with timber prefabrication, write immediately with full details of past positions, salary, etc., to Box 3466, "The Builder."

IMPERIAL CHEMICAL INDUSTRIES, LTD.,
ALKALI DIVISION,
WINNINGTON, NORTHWICH, CHESHIRE.
STRUCTURAL AND CIVIL ENGINEERING DESIGNERS.

Vacancies exist in our Civil Engineering Department for ASSISTANT TECHNICAL OFFICERS to work as structural and civil engineering designers. Applicants, age 25-40, should possess H.N.C. and have had experience either in structural work or in reinforced concrete and general building work.

Appointments are to the permanent staff, five-day week, with good salaries, first-class working conditions and recreational facilities. Contributory Pension Fund and Profit-sharing Schemes. Married men can receive limited assistance with removal expenses. Write for official application form to Staff Manager, quoting reference GES/STRUCT.

A FIRST-CLASS CIVIL ENGINEER is Required for the North Eastern area by MYTON LIMITED (a member of the Taylor Woodrow Group) and applications are invited from Civil Engineers with experience in Public Works and Civil Engineering. Ample opportunity for advancement, and a good salary will be offered. Pension Scheme.—Applications, with full particulars, marked "Application" to the General Manager, MYTON LTD., 169, Clough-road, Hull.

CHARTERED QUANTITY SURVEYORS with experience by Variations and running of Contracts Required by London Chartered Quantity Surveyors. Experience of substantial contracts with responsibility essential. Good salary and prospects.—Applications with details to Box 926, "The Builder."

EXPERIENCED SITE SURVEYOR for Final Accounts in professional Quantity Surveyors' office in Westminster area. Good salary and prospects for right man.—Apply Box 985, "The Builder."

SENIOR QUALIFIED SURVEYOR Required to take charge of important project in the Midlands for London firm of Surveyors. Excellent prospects.—Reply stating age and experience to Box 988, "The Builder."

MEASURING SURVEYOR Required with at least three years' experience in a Quantity Surveyor's office. Commencing salary £700 p.a., plus considerable overtime and annual bonus.—Box 946, "The Builder."

PLUMBING/MEASURING SURVEYOR Required. Salary £750 p.a. for South Coast plumbing contractors. Car provided. Superannuation scheme operating.—Box 3360, "The Builder."

SENIOR QUANTITY SURVEYOR with leadership qualities, required for leading Midland Building concern. Pension, Life Insurance, Profit sharing scheme, and assistance with car. Only candidates who have the ability to earn a four figure salary or above, need apply. In strictest confidence, send particulars of experience, age, salary, and when free, to Box 3361, "The Builder."

EXPERIENCED MEASURING SURVEYOR Required, aged 25-40, with at least five years' experience in a Quantity Surveyor's office. £900 p.a., plus bonus and overtime, with good prospects for future salary increases.—Box 947, "The Builder."

LEADING Building and Civil Engineering Contractors have vacancies for the following:—
SENIOR and ASSISTANT SURVEYORS, ASSISTANT ESTIMATOR SURVEYOR, CONTRACT SUPERVISORS, AGENTS and GENERAL FOREMEN, SITE ENGINEERS and ASSISTANTS, DRAUGHTSMAN.
The positions are permanent and pensionable after normal qualifying period. Applications, in confidence, giving full details and salary required to Box 3362, "The Builder."

MEASURING SURVEYOR Required by City firm of Chartered Quantity Surveyors. Five-day week. Pension Scheme. — Write Box 3363, "The Builder."

QUANTITY SURVEYOR Required in Victoria area to take-off and carry through contracts of varied character to final account. Five-day week, pension scheme, luncheon vouchers, extra rate for overtime.—Write, stating age, experience, and salary required, to Box 3343, "The Builder."

REQUIRED Immediately in York and Doncaster, TAKING-OFF and MEASURING SURVEYORS for important building works in this area. Applicants are requested to state when free to commence, age, full particulars of training, experience, and salary required. Selected applicants may be interviewed in York, Doncaster or London and travelling expenses will be paid for interview.—Box 3364, "The Builder."

BONUS SURVEYOR—Experienced, required for London Contracts. Pension scheme in operation, good prospects.—Write, stating age, experience, and salary required, to The General Manager, HUMPHREYS LTD., Knightsbridge, S.W.7.

THE HELICAL BAR & ENGINEERING CO. LTD., Require for their London Office a competent QUANTITY SURVEYOR to take-off and prepare Bills for Reinforced concrete work. Five-day week. Pension scheme.—Apply, in writing, giving brief details of experience, and salary required, to 82, Victoria-street, S.W.1.

ESTIMATING AND MEASURING QUANTITY SURVEYOR Required mainly for Industrial Building Contracts by a substantial firm operating in West Riding of Yorkshire. Applicant must be fully experienced and have a successful record in this class of work. The post is a progressive one with excellent prospects for a man with ability and drive. Pension scheme in operation.—Apply with full particulars of age, experience, and salary required, to Box 3365, "The Builder."

CIVIL Engineering and Building Contractors in Provinces require SENIOR QUANTITY SURVEYOR experienced in finalising accounts for large contracts. Excellent salary and conditions, including Pension Scheme after probationary period. Applicants should give full information of past experience, and indicate present and expected salary.—Box 3366, "The Builder."

OPPORTUNITY occurs for competent MEASURING SURVEYOR with London firm Painting Contractors.—Replies in confidence, stating experience, age and salary, to Box 3407, "The Builder."

JUNIOR MEASURING SURVEYOR Required by Chartered Quantity Surveyors for Site Work in Sussex. — Please reply stating age, experience, and salary required, to Box 3367, "The Builder."

LONDON Chartered Quantity Surveyors require experienced MEASURING SURVEYOR for Site Work in Sussex.—Please write stating age, experience, and salary required, to Box 3368, "The Builder."

EXPERIENCED MEASURING SURVEYOR Required by Chartered Quantity Surveyors for work on large building and civil engineering site in N.W. England.—Please reply, stating age, experience, and salary required, to Box 3403, "The Builder."

EXPERIENCED QUANTITY SURVEYOR Required by London firm of Building Contractors specialising in speculative housing schemes, South London area. Duties to include Preparation of Bills of Quantities, Estimating, Measuring, and Agreeing Sub-Contractors' Accounts. Permanent and progressive position to right man. Excellent salary and prospects.—Write, stating age, experience, Box 3337, "The Builder."

SURVEYOR Required, preferably experience with plastering firm. Duties include preparation of Statements for bonus workers, Site Measurement for interim valuation and Final Accounts.—Apply, stating age, salary and experience. Box 3333, "The Builder."

MYTON LIMITED (a member of the Taylor Woodrow Group) Require QUANTITY SURVEYORS and JUNIOR QUANTITY SURVEYORS for work in the London area. Excellent prospects are offered with good salary. Pension scheme.—Applications, in writing, with full particulars, to the Chief Quantity Surveyor, MYTON LTD., 169, Clough-road, Hull.

SENIOR SURVEYOR with good experience of all types of work Required for permanent and pensionable post with large Contractors with head office in South West coastal town.—Applications with age, details of experience and salary required to Box 3410, "The Builder."

CONTRACTORS in West Middlesex, reorganising Surveying Department, urgently require JUNIOR SURVEYORS' and SURVEYORS' ASSISTANTS. Salaries up to £750 p.a. plus bonus are offered, and a superannuation scheme is operating.—Please reply, giving full details of age, experience, etc., to Box 3413, "The Builder."

JUNIOR BUILDING SURVEYOR Required with experience in Site Measuring, Supervision and Agreeing Sub-Contractors' Work and Final Accounts. Salary according to qualifications.—F. HITCH & CO., Ltd., Church-street, Ware, Herts.

SENIOR ESTIMATING SURVEYOR Required by well-known London firm of Contractors for preparation of Estimates and work in connection with Final Accounts, Interim Certificates, etc., on Contracts in the London area. This is a permanent and pensionable position with excellent prospects.—Please write to Box 3445, "The Builder."

QUANTITY SURVEYOR Required for building contracts in Bristol area. Able to control contracts from commencement to Final Account. Good prospects, pension scheme.—Write, stating age, experience, and salary required, to ROBERT WATSON & CO., (C.E.) LTD., Filton Office, Filton, Bristol.

SURVEYOR Required by well-known London firm of Contractors for preparation of Final Accounts, Interim Certificates, etc., on Contracts in London area. This position is permanent and pensionable with excellent prospects.—Please write to Box 3446, "The Builder."

CHIEF SURVEYOR/ESTIMATOR Required by old-established general contracting business in industrial south coast town. Preference will be given to men with very extensive experience of all types of work up to £75,000, including an ability to price in all trades. The post includes a good salary and free use of a car. Applicants should be well educated and in the age group 35-40.—Box 3450, "The Builder."

SURVEYOR Required in Small Works Department of well-known London Contractors in S.W. area, with experience of high grade jobbing and alteration work. Able to deal with enquiries from initial stage to Final Account.—Write, giving particulars, to Box 3443, "The Builder."

EXPERIENCED QUANTITY SURVEYOR, preferably qualified and used to working on own initiative on building quantities, Required for service in Tehran, Iran, on civil engineering and building work. Initial agreement for 18 months with distinct probability of renewal. Depending upon experience, salary range from £1,500 to £2,000 p.a. free of Iranian income tax, with free passage, accommodation and medical facilities. Paid home leave at end of initial agreement. Young, single man preferred.—Box 3452, "The Builder."

SURVEYOR Required for Midlands Region. Experience in quantities, estimating and negotiations essential. Knowledge of new traditional building an advantage. Accommodation may be available.—Please write stating age, experience, qualifications, salary required, to Box 3451, "The Builder."

BONUS & COSTING SURVEYOR Required for S.E. London area. Pension scheme in operation. —Apply, giving particulars, to HENRY BOOT & SONS, Ltd., 10, The Boltons, S.W.10.

BUILDING/QUANTITY SURVEYOR Required with experience in building construction, site measuring and supervision and preparation of specifications and reports. Salary based on scale, maximum at present £706 per annum. Certain free and reduced rate rail travel facilities will be granted.—Apply, in writing, giving age and particulars to Chief Civil Engineer (ME), BRITISH RAILWAYS, EASTERN REGION, King's Cross Station, London, N.1.

EXPERIENCED COST / BONUS SURVEYORS Required for Site and Head Office duties in London and the Home Counties. Excellent opportunities for keen men interested in advancement and permanent positions in the Building and Civil Engineering Industry.—Apply in writing, stating experience and salary required, to WILSON LOVATT & SONS, Ltd., 16, Grosvenor-crescent, S.W.1.

YOUNG SURVEYOR Required for firm of specialist sub-contractors in false ceiling light steel construction. Must be conversant with measuring from drawings and site conditions. Suitable applicant will be trained in estimating and general management. Initiative and keenness required for progressive position.—Apply: STEEL BRACKETING & LATHING, Ltd., 3-8, Brigstock-parade, Thornton Heath, Surrey.

CHARTERED Quantity Surveyor has vacancies on his staff for several JUNIOR ASSISTANTS for working-up.—Reply giving details of age, experience, etc., and salary required, to Box 966, "The Builder."

ASSISTANT MEASURING SURVEYOR to work under supervision. Permanent position. Details age, experience, and salary in handwriting, to A. E. THORNTON-FIRKIN & PARTNERS, 17, Fitzhardinge-street, London, W.1.

ASSISTANT Required by Chartered Quantity Surveyor for his Newbury, Berkshire, office. Must be at least Intermediate standard.—Please reply in own handwriting stating age, experience, and salary required to Box 3369, "The Builder."

ASSISTANT QUANTITY SURVEYOR (minimum Inter R.I.C.S. standard) for taking-off and settling final accounts. Professional office, Westminster. Five-day week, luncheon vouchers, pension scheme. Write, stating qualifications, experience, age, and salary required.—Box 3370, "The Builder."

CHIEF ASSISTANT of good education and personality Required in medium-sized Chartered Quantity Surveyor's office (London). Age about 40-50 years. Must be a member of the R.I.C.S.—a first-class Taker-off with at least 10-15 years' London experience and with an expert knowledge of estimating and analysis of prices. Must also be a keen, thoroughly reliable and conscientious worker. Basic salary £1,500 p.a. plus bonus. Three weeks' annual holiday.—Full particulars of education, training and experience in writing to Box 3371, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required, initially for large Hydro-Electric Contract. Permanent appointment with excellent opportunities for advancement. Good salary and conditions, and entry into Superannuation Scheme arranged after 12 months' service.—Applications, which will be treated in strictest confidence, to: THE MITCHELL CONSTRUCTION COMPANY, Wharf Works, Peterborough, Northants.

ASSISTANT SURVEYOR Required, capable of measuring and agreeing all Sub-Contractors' accounts and preparation of final accounts.—Reply stating age, experience, and salary required, C. MISKIN & SONS, Ltd., Romeland, St. Albans.

QUANTITY SURVEYOR'S ASSISTANT Required by the ATOMIC WEAPONS RESEARCH ESTABLISHMENT, Aldermaston, Berks, for working-up and measurement of minor works. Applicants should be up to Inter. R.I.C.S. standard, but other applicants with long experience in the duties would be considered. Salary £781 (linked to age 30)—£925. Contributory Superannuation Scheme. Married officers now living outside the Establishment's transport area will be eligible for housing on one of the Authority's estates (alternatively, assistance towards legal expenses incurred in a house purchase may be available); until housed, a lodging allowance may be payable.—Requests for application forms by postcard to the Senior Recruitment Officer at the above address. Please quote ref. 1245/118.

SENIOR ASSISTANT Required in medium-sized Chartered Quantity Surveyor's London office, age between 30 and 40 years. Must be A.R.I.C.S., an accurate and expeditious taker-off with at least five years' first-class London experience. Salary £1,200 per annum, plus bonus.—Full particulars in handwriting of education, training and experience, to Box 3372, "The Builder."

RHODESIAN Chartered Surveyors Require on initial 3-year contract, JUNIOR ASSISTANT, capable of abstracting, billing and final accounts. Salary £65 per month, passage paid.—Apply, quoting OSS.97/3 to OVERSEAS TECHNICAL SERVICE, 5, Wellldon-crescent, Harrow, Middlesex.

ASSISTANT SURVEYOR Required by Contractors, Hornchurch, Essex, area. Quantities and Site Works main duties. Excellent opportunity for ambitious man. O.N.C. or H.N.C. an advantage. Write stating age, experience, salary required.—Box 3438, "The Builder."

ASSISTANT BUILDING SURVEYOR Required by West End Surveyors for work of an interesting and varied nature to all classes of properties. Experience in drawing and specification writing essential.—Full details, including salary required, to ELLIOTT, SON & BOYTON, WELbeck 8367.

ASSISTANT SURVEYOR Required by reputable firm of London Contractors for work in connection with measurement of Sub-Contractors, Interim Certificates, Final Accounts, etc., on Contracts in the London area.—Write, giving full details, to Box 3447, "The Builder."

YOUNG MAN (16-18) wishing to enter the Quantity Surveying profession required in either London or Birmingham Office of Chartered Quantity Surveyors. Five-day week, lunch vouchers.—Reply, stating age, experience and details of education to—REYNOLDS & YOUNG, 329, High Holborn, London, W.C.1, or 191, Corporations-street, Birmingham, 4.

THE boy of to-day can be the Chartered Surveyor of tomorrow.—Apply to London C.Q.S. and so place his foot on the first rung of the ladder. Bonus Scheme and Luncheon Voucher service.—Box 914, "The Builder."

OFFICE JUNIOR, Youth 16 or 17 leaving school, required by firm of Chartered Quantity Surveyors for their City Office. Excellent opportunity to train for profession.—Write, stating age, education, and salary expected, to Box 3373, "The Builder."

JUNIOR ASSISTANT (16 to 18 years) required for London firm of Chartered Quantity Surveyors (Holborn). Five-day week.—Box 3374, "The Builder."

YOUTH with knowledge of builder's quantities required for a permanent position to train as SURVEYOR and ESTIMATOR in specialist trade. Must have completed National Service.—Please reply, stating age, experience, and salary required, to Box 3375, "The Builder."

BOY from School Required for training in London Chartered Quantity Surveyors' Office. Commencing salary £3 per week.—Apply WHEELER, RUMBLE & PARTNERS, 16, Grenville-street, W.C.1. Terminus 1107.

BOY leaving School Required by Chartered Quantity Surveyors near Holborn to train for the profession. Five-day week. Articles if desired.—Applications stating age, school and subjects taken in G.C.E. to Box 3376, "The Builder."

JUNIOR TAKER-OFF Required in Wetsminster Quantity Surveyors' office. Excellent opportunities for advancement and for gaining experience in all classes of both English and Overseas work.—Apply Box 986, "The Builder."

TAKERS-OFF Required by West End firm of Chartered Quantity Surveyors. Must be experienced and permanent; five-day week.—Box 956, "The Builder."

CHARTERED Quantity Surveyors require TAKER-OFF/MEASURING SURVEYOR for their Site Office Staff in Essex. Intermediate R.I.C.S. standard considered, but preference given to qualified candidate. Five-day week. Modern house probably available if required. Commencing salary £750 per annum. —Reply with full details to Box 996, "The Builder."

SENIOR TAKER-OFF Required by London Chartered Quantity Surveyor. Good salary and prospects to a man having experience of large schemes.—Application with details to Box 916, "The Builder."

SENIOR TAKER-OFF Required by Westminster Quantity Surveyors. The post is a responsible one and there are ample opportunities for suitable applicant. Lunch vouchers provided.—Reply, stating salary required, to Box 991, "The Builder."

EXPERIENCED TAKER-OFF Required by old-established Quantity Surveyors in Westminster. Write stating experience, age, and salary required.—Box 907, "The Builder."

JUNIOR TAKERS-OFF Required. Salary £600—£750 p.a. according to experience. The foregoing salary is exclusive of overtime and bonus.—Box 941, "The Builder."

EXPERIENCED TAKER-OFF Required. £1,000 p.a.; annual bonus.—Box 939, "The Builder."

AUSTRALIA.—Experienced TAKERS-OFF and WORKERS-UP Required for three-year contracts in Australia; salaries paid approximately 30 per cent. higher than those in England. Transport provided both ways.—Box 943, "The Builder."

AMBITIOUS young TAKER-OFF Required, aged 24-30, with at least five years' experience in a Quantity Surveyor's office, to commence taking-off windows, doors, finishings, etc., and a year or so progress to more advanced work. Commencing salary £600—£750 p.a. according to experience. Scope for considerable overtime at time and a quarter; annual bonus. Salary increases £50—£100, according to progress.—Box 944, "The Builder."

SENIOR TAKER-OFF Required by City firm of Chartered Quantity Surveyors. Position holds considerable scope for advancement. Five-day week. Overtime available. Pension Scheme in operation.—Reply giving full particulars of experience, and salary required to Box 3377, "The Builder."

EXPERIENCED TAKER-OFF Required with at least ten years in a Quantity Surveyor's office, aged 26-40. Commencing salary £1,000 p.a., subject to increases of £75 p.a. to £1,300. Overtime and bonus in addition.—Box 945, "The Builder."

TAKERS-OFF, MEASURING SURVEYORS and ARTICLED PUPILS Required at Newcastle on Tyne, Coventry and Carlisle.—Particulars from A. H. DAVIS & PARTNER, 28, Osborne-road, Newcastle upon Tyne, 2.

JUNIOR TAKER-OFF Required for London firm of Chartered Quantity Surveyors (Holborn). Long term prospects with excellent opportunities for advancement. Five-day week. Overtime.—Box 3378, "The Builder."

SUSSEX C.Q.S. require JUNIOR TAKER-OFF, experienced in preparing Final Accounts and Interim Valuations. Luncheon vouchers. Five-day week. Write stating experience. — Box 3344, "The Builder."

DAVIS, BELFIELD & EVEREST Require young TAKER-OFF, preferably A.R.I.C.S., for London office. Pension scheme, Luncheon vouchers.—Particulars to 9, Ashley-place, S.W.1.

ASSISTANT Required for sheeting department, experienced in taking-off quantities for all types corrugated sheeting, patent glazing and insulation.—Apply, stating age, and salary required, SANDERS & FORSTER, Hertford-road, Barking.

CHARTERED Quantity Surveyor in Bristol requires TAKER-OFF, A.R.I.C.S. In reply please state age, experience and salary required.—Box 3379, "The Builder."

SENIOR AND JUNIOR TAKERS-OFF Required in Chartered Quantity Surveyors' Office, mid-Kent area. Salary according to experience.—Box 3396, "The Builder."

TAKER-OFF, experienced (A.R.I.C.S. preferred) Required by busy, old-established firm of Chartered Quantity Surveyors in Westminster. Commencing salary £900 to £1,100 per annum, according to experience; 5-day week, overtime available.—Box 3339, "The Builder."

FIRST-CLASS TAKER-OFF Required by Contractors in West Middlesex. Good salary and bonus. Superannuation Scheme operating.—Please reply giving full details of age, experience, etc., to Box 3415, "The Builder."

TAKER-OFF & SITE MEASURING SURVEYOR Required by London Quantity Surveyor's office. Five-day week. — Write stating age, experience and salary required to Box 3421, "The Builder."

TAKER-OFF Required in Quantity Surveyor's office —Reply, stating age, experience, and salary required, to E. R. BABBS & SONS, 187, Piccadilly, London, W.1.

TAKER-OFF Required in Central London office of C.Q.S. Salary £700-£800 according to ability.—Box 3459, "The Builder."

TAKER-OFF Required for busy and expanding Professional office in Central London. Preferably qualified this year or sitting for Final next year. Salary in accordance with ability and experience.—Please apply in own handwriting, stating age, experience and salary required, to Box 3448, "The Builder."

TAKER-OFF or MEASURING SURVEYOR (A.R.I.C.S.) recently qualified, Required for Chartered Quantity Surveyor's Branch Site Office in Berkshire. House available. Five-day week. Subsistence allowance.—Write, giving particulars, to Box 3493, "The Builder."

TAKER-OFF (Senior) Required by Chartered Quantity Surveyors near Strand. Good salary to experienced person. Pension scheme in operation. Varied work.—Please send details to Box 3486, "The Builder."

CHARTERED Quantity Surveyor in Bristol requires TAKER-OFF, A.R.I.C.S. In reply please state age, experience and salary required.—Box 3489, "The Builder."

EXPERIENCED WORKER-UP Required by London Chartered Quantity Surveyors, with prospects of site measuring and junior taking-off.—Applications with details to Box 927, "The Builder."

WORKER-UP (preferably one who does not want to do taking-off) Required by London Chartered Quantity Surveyors. Permanent position. Attractive bonus scheme for good worker. Pension scheme available.—Please reply, in confidence, to Box 924, "The Builder."

WORKER-UP Required by progressive London firm engaged largely on industrial and public works. The post is permanent and there is a Staff Pension scheme.—Please reply to Box No. 374, GLOVERS ADVERTISING, Ltd., 351, Oxford-street, London, W.1.

WORKERS-UP Required by West End firm of Chartered Quantity Surveyors, must be experienced and permanent. Five-day week.—Box 968, "The Builder."

EXPERIENCED WORKER-UP AND JUNIOR Required in Quantity Surveyors' Office near Victoria Station. Five-day week. Luncheon vouchers. —Write stating age, experience and salary required to Box 987, "The Builder."

EXPERIENCED WORKER-UP Required by old-established Quantity Surveyors in Westminster. Write stating experience, age and salary required.—Box 909, "The Builder."

EXPERIENCED WORKER-UP Required for Quantity Surveying Department in London firm of Consulting Engineers. Five-day week. Luncheon vouchers. Superannuation Scheme. Age no objection. —Reply Box No. 935, stating salary required.

RIDER HUNT & PARTNERS have permanent situations vacant for SENIOR WORKERS UP and JUNIOR and SENIOR TAKERS-OFF. Considerable overtime and annual bonus.—Applicants should reply by letter with full details of experience to Bridge House, Queen Victoria-street, E.C.4.

EXPERIENCED WORKER-UP Required for permanent situation in London office. £700 p.a., plus considerable overtime and annual bonus.—Box 936, "The Builder."

WORKER-UP with at least four years' experience Required for permanent situation. Commencing salary £600, subject to annual rises of £60 and opportunities for measuring and taking-off after one year.—Box 937, "The Builder."

WORKER-UP/TAKER-OFF, with at least four years' technical experience, Required for permanent situation. Commencing salary £600 p.a., with overtime and bonus. First year to be spent entirely working-up, and after that considerable scope for measuring and taking-off. Annual rises.—Box 940, "The Builder."

AMBITIOUS young WORKER-UP, age 21-26, Required to commence as Worker-up for one year, and then excellent opportunities for measuring and taking-off. Salary £500—£600 p.a. according to experience; considerable overtime may be worked and an annual bonus will be paid. Annual rises of £60 for several years.—Box 942, "The Builder."

JUNIOR WORKER-UP seeking change of environment could profitably contact London C.Q.S., who would be pleased to discuss ways and means of satisfying his requirements. Bonus Scheme and Luncheon Voucher service.—Box 913, "The Builder."

SENIOR WORKER-UP Required by City firm of Chartered Quantity Surveyors. Five-day week. Overtime available. Pension Scheme in operation.—Reply, giving full particulars of experience, and salary required to Box 3380, "The Builder."

WORKER-UP Required for London firm of Chartered Quantity Surveyors (Holborn). Long term prospects with early opportunity for junior taking-off.—Box 3381, "The Builder."

WORKER-UP with minimum two years' experience required by LESLIE G. DIGHT, F.R.I.C.S., Datom House, 2, Harrison-street, Grays Inn-road, London, W.C.1. Minimum salary £400 per annum. Holiday arrangements respected.—Reply, stating age, experience, etc.

SENIOR WORKER-UP Required in medium-sized Chartered Quantity Surveyor's office (London) with at least 10 years' first-class London professional experience. Must be fully reliable and efficient and able to take charge of the working-up and increased costs sections. Salary £840 per annum, plus bonus.—Full details in handwriting of education, training and experience, to Box 3382, "The Builder."

WORKERS-UP Required by old-established firm of London Chartered Quantity Surveyors. Excellent working conditions in new offices Charing Cross area. Five-day week. Prospects for advancement. Reply, stating experience, and salary required.—Box 3405, "The Builder."

EXPERIENCED WORKER-UP Required by London Chartered Quantity Surveyors.—Please reply, stating age, experience, and salary required, to Box 3402, "The Builder."

EXPERIENCED WORKERS-UP Required—male or female, by busy old-established firm of Chartered Quantity Surveyors in West End. Five-day week, good commencing salary and prospects, overtime available.—Write Box 3340, "The Builder."

WORKERS-UP Required by Contractors in West Middlesex. Good salary and bonus. Superannuation Scheme operating.—Please reply giving full details of age, experience, etc., to Box 3414, "The Builder."

CHARTERED Quantity Surveyors have permanent situations vacant for:—
SENIOR & JUNIOR WORKERS-UP.
SENIOR & JUNIOR TAKERS-OFF.
Opportunity may be available to take term posts in branch offices overseas. Work will be of very varied scope and should give considerable opportunity of advancement.—Write stating full details of experience to C. T. R. KELLY & PARTNERS, 36, Seymour-street, W.1.

WORKER-UP Required by Chartered Quantity Surveyor with small West End practice, willing to assist principal in general office routine; opportunities for taking-off; would have room to himself. Write stating age, experience and salary required.—Box 3433, "The Builder."

SITE ENGINEERS

WILSON LOVATT & SONS LTD have several vacancies for SITE ENGINEERS for new large Contracts about to start. Experience necessary in setting out buildings and the carrying out of external services and site works. A good salary will be paid with living allowance for suitable men, and other terms at interview. Applications to Clarence-street, Wolverhampton.

ESTIMATING ENGINEER Required, preferably with experience in one of the following plants: Coal Preparation, Coke Ovens, Coal and Gas Building. Five-day week. Staff Pension scheme.—Apply THE COPPEE CO. (G.B.), Ltd., 140, Piccadilly, London, W.1.

STRUCTIONAL ENGINEER Required for active old-established Property Development Company. Must be experienced in both steel and reinforced concrete construction for new buildings and conversions, with knowledge of London Building Acts and By-Laws as well as relevant Codes of Practice. Top salary will be paid to suitable man capable of taking responsibility. Superannuation Scheme. Permanent position and excellent prospects of continual advancement.—Write with full details to S. M. HAINES, 38, Upper Grosvenor-street, London, W.1.

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